

Dubrovnik International ESEE Mining school – DIM 2017

Zero Waste Management

November 20 – 25, 2017

Joint project of



Description

The Dubrovnik International ESEE Mining school (DIM) brings together international experts in the field of Mining in the heart of the ESEE Region.

Focussing on recent developments within the mining industry and the development of the mining sector, our program aims at transferring new-found, innovative theoretical knowledge, tested in practice, to our participants.

Within the thematic workshops and project work the focus lies on direct knowledge transfer from renowned experts to the participants, but also the creation of an open dialogue between students, scholars, researchers, the industry and wider society. The knowledge and skills gained at DIM increases the employability of mining engineers.

Furthermore, wider general education on topics of mining and especially the improvement of mining techniques, resulting in a lower environmental impact, helps gain wider societal acceptance of mining. Our program, in the long run, will lead to an increase in sustainable mining activities, which will in the process result in economic growth and the creation of employment in the respective countries.



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

Zero waste management

Under the 2017 topic Zero waste management DIM ESEE project partners will discuss several important questions. How to preserve natural resources? How to recycle and utilize mining and industrial waste as valuable resources for the building sector? How to reduce environmental impacts by these new approaches?

The topic will deal with:

- (1) recycling in general – including legislation aspects, methods for recycling of mining and industry waste, selected good practices on steel slag; applications in building sector;
- (2) large-scale landfilling of industrial, mining, and municipal waste across the region, and its use in construction;
- (3) reclamation of contaminated areas, polluted by past industrial and mining activities;
- (4) demonstration of sustainable additional purifying of water from small wastewater treatment plant;
- (5) enhancing a circular economy through industrial symbiosis by demonstration on selected cases how to use big data mining and decision tools on one hand and demonstrating possible innovative processes and services, that enable product and material reuse, recycling, and recovery on the other hand;
- (6) environmental impact and benefits of recycling waste –using Life Cycle Assessment tools.

Program details

Location	Dubrovnik, Croatia, http://www.iuc.hr/	
Duration	One week of full-time studies and excursions (November 20 – 25 2017)	
Academic field	Mining Engineering, Environmental and Geotechnical Engineering	
Target group	Master and PhD students, postgraduate, professionals, academic staff	
Tuition fee (Includes academic program, accommodation and half-board)	Regular fee	MSc and PhD students
	500 € + VAT 25% - for payments until October 20th! Regular fee - 600 € + VAT 25%	250 € + VAT 25% - for payments until October 20th! Regular fee - 300 € + VAT 25%
Scholarship	Through CEEPUS program where available (check directly with the institution through which you are applying)	
Recommended credits	2+2 ECTS	
Exam types	Seminar paper, project work	
Social program	Excursion, city tour	
Contact	Vječislav Bohanek dim.esee@rgn.hr	



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Lecturers



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Schedule DIM ESEE 2017

	Morning 9-12	Afternoon 13-16
Monday 20.11.	<p>Check-in and registration</p> <p>Introduction Administrative Matters Academic Matters</p> <p>Welcome reception drink</p> <p>Zero waste management horizontal programme: Presentation of a case study – exploring the consequences and various aspects of the presented case in groups (1h)</p>	<p>Round Table Challenges in the Society Directors + Teaching Staff (1 hour)</p> <p>Lesson number 1 – Overview on Zero waste management, Ignacio Calleja, KIC RM (30 min)</p> <p>Lesson number 2 – Sustainable products and consumption, Lana Žutelija, DG Environment (30 min)</p> <p>Lesson number 3 – Circular economy in relation to the Smart specialization strategy; Robert Blažinović, Ministry of Economy, Entrepreneurship and Crafts (30 min)</p> <p>Sponsored Welcome Dinner</p>
Tuesday 21.11.	<p>Lesson number 4 - Technical waste treatment systems; MUL (90 min)</p> <p>Lesson number 5 - Circular waste economy; MUL (90 min)</p>	<p>Lesson number 6 – Environmental Geotechnics; RGNF (90 min)</p> <p>Lesson number 7 - Local and regional circular economy; PKG, industrial partner (90 min)</p>
Wednesday 22.11.	<p>Lesson number 8 - Life cycle assessment tools - quantification of environmental impacts; ZAG (90 min)</p> <p>Lesson number 9 - Life cycle assessment of the silica sand – case study; RGNF (90 min)</p>	<p>Lesson number 10 - Nano-remediation of water from small wastewater treatment plants; ZAG (90 min)</p> <p>Debate on Zero waste management (2 hrs)</p> <p>City Tour</p>
Thursday 23.11.	<p>Best practice examples of the industrial participants (15 min per participant)</p> <p>Lesson number 11 - Recycling of ferrous slags for construction purposes; ZAG (90 min)</p>	<p>Lesson number 12 - Enhancing a circular economy through industrial symbiosis; ZAG (90 min)</p> <p>Excursion</p>
Friday 24.11.	<p>Lesson number 13 - Tailings Disposal; RGNF (90 min)</p> <p>Lesson number 14 – Landfill mining - recovery of high value materials for construction; ZAG (90 min)</p>	<p>Lesson number 15 - In-situ remediation of soil contaminated by past industrial activities; ZAG (90 min)</p> <p>Lesson number 16 – Good practice examples; ZAG (90 min)</p> <p>Zero waste management horizontal programme: Case study – a revision based on new knowledge (1h)</p> <p>Closing Ceremony</p>
Saturday 25.11.	Departure	

How to apply

Please register by clicking on the following link:

<http://bit.ly/2uOIVk1>.

If you have any questions, please contact us via e-mail

dim.esee@rgn.hr.



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