

**ONLINE SCHEDULE OF THE ERE 1.4 SESSION
THE ENVIRONMENT AND SMART CIRCULAR ECONOMY: A NEW GEO
MANAGEMENT APPROACH**

Presentation Displays

1. Potential of nature-based solutions for creating resourceful circular cities
GÜNTER LANGERGRABER 1 AND NATASA ATANASOVA 2

- 1) Institute of Sanitary Engineering, University of Natural Resources and Life Sciences, Vienna (BOKU), Vienna, AUSTRIA;
- 2) Faculty of Civil and Geodetic Engineering, University of Ljubljana, SLOVENIA

2. A missing link - site resource inventories for the circular city
GÖSTA BAGANZ, DANIELA BAGANZ, GEORG STAAKS, AND WERNER KLOAS
Institute for Freshwater Ecology and Inland Fisheries (IGB), Department of Ecophysiology and Aquaculture, Germany

3. Closing urban resource cycles through nature-inspired systems
MARIA WIRTH, JOHANNES KISSER
Alchemia-nova GmbH, Austria

**4. The Role of Multi-scale Approach in Planning and Design of Circular Cities:
Mapping the Nexus Between Urban and Natural**
**JELENA RISTIC TRAJKOVIC, VERICA KRSTIC, AND ALEKSANDRA
MILOVANOVIC**
University of Belgrade - Faculty of Architecture, Serbia

**5. RAIN - A Living Lab Concept for Circular Economy, Cooperation and
Innovation in Rural Regions**
KLAUS WAGNER
Federal Institute of Agricultural Economics, Rural and Mountain Research, Vienna, Austria

**6. The superiority of circular economy solutions in the main sectors of an innovative
and prospering economy – a case study from Iceland**
**DAVID C. FINGER 1, 2, Halldór G. Svavarsson 1,3, Bryndís Björnsdóttir 4, Guðrún A.
Sævarsdóttir 1,2, and Lea Lea Böhme 5**
1) Reykjavik University, Sustainability Institute and Forum (SIF), Reykjavik, Iceland
2) Reykjavik University, School of Science and Engineering, Environmental engineering,
Reykjavik, Iceland
3) Blue Lagoon Ltd., Grindavík, Iceland
4) Matis, Reykjavik, Iceland
5) ReSource International ehf., Kópavogur, Reykjavik, Iceland

**7. How to meaningfully engage key stakeholders in smart circular
economy**
GERGANA MAJERCAKOVA, SABINA BOKAL
Global Water Partnership Central and Eastern Europe, Slovakia

**8. Lignin microspheres as a nature-based material for effective
nickel(II) and cadmium(II) ions removal**
**TIJANA STANIŠIĆ 1, ANA POPOVIĆ 2, JELENA RUSMIROVIĆ 1, MAJA ĐOLIĆ 2,
MIRJANA RISTIĆ 2, ALEKSANDRA PERIĆ-GRUJIĆ 2, AND ALEKSANDAR
MARINKOVIĆ 2**

- 1) Innovation Center - Faculty of Technology and Metallurgy, Department of Analytical Chemistry and Quality Control, Belgrade, Serbia
- 2) Faculty of Technology and Metallurgy, University of Belgrade, Serbia

9. The removal of As(V) ions by lime-modified fly ash and reuse of the exhausted adsorbent as an additive for construction material

MILICA KARANAC¹, **MAJA ĐOLIĆ**², **VLADIMIR PAVIĆEVIĆ**², AND **ALEKSANDAR MARINKOVIĆ**²

- 1) Envico Ltd., Belgrade, Serbia
- 2) The Faculty of Technology and Metallurgy, University of Belgrade, Belgrade, Serbia

10. Methodological analysis for decision-making regarding solid waste management in megacities

JOHANNA SOLANO¹, **DAVID ORJUELA YEPES**¹, AND **JAVIER RODRIGO-ILARRI**²

- 1) Ingeniería Ambiental, Universidad Santo Tomás, Bogotá, Colombia
- 2) Instituto de Ingeniería del Agua y del Medio Ambiente (IIAMA), Universitat Politècnica de València, Spain

11. Improving the Municipal Solid Waste Management Plan Of The Municipality Of Nemocón (Colombia)

CAMILO ANDRÉS VARGAS TERRANOVA, **JAVIER RODRIGO ILARRI**
UNIVERSIDAD POLITECNICA DE VALENCIA, ESCUELA DE DOCTORADO, Programa de Doctorado en Ingeniería del Agua y Medioambiental, Colombia

Abstract Displays

1. Towards Eco-circular economy worldwide

SERGIU ȘIȘCAN

Moldova State University, Chisinau, Moldova, Republic of Moldova

2. The circular ecological economy - a beneficial environment in light of the use of natural resources in the Republic of Moldova

OLESEA COJOCARU¹, **ZORINA SISCAN**²

- 1) State Agrarian University of Moldova, Agroecology and Soil Science, Chisinau, Moldova, Republic of Moldova
- 2) Academy of Economic Studies of Moldova, Chisinau, Republic of Moldova

3. Transdisciplinary research towards transsectoral implementation

MARTIN REGELSBERGER¹, **ASTRID ALLESCH**², **BENEDIKT BECSI**², **VERENA GERMANN**², **GEORG GRATZER**², **ASTRID**

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- 2) Universität für Bodenkultur Wien
- 3) Universität Innsbruck
- 4) Universität Graz
- 5) Technische Universität Graz
- 6) Climate Change Centre AUSTRIA

4. Emission of primary microplastics in mainland China: Invisible but not Negligible

TENG WANG^{1,2}, **BAOJIE LI**^{2,3}, AND **XINQING ZOU**³

- 1) School of oceanography, Hohai University, China

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