

# TBMCE

# 2026

9. – 11. 9. 2026  
Grand Hotel Bernardin  
Portorož, Slovenia

## CONFERENCE PROGRAMME



REPUBLIKA SLOVENIJA  
MINISTRSTVO ZA VISOKO ŠOLSTVO,  
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*"This investment is co-financed by the Republic of Slovenia and the European Union Fund for Regional Development"*

*"The event is held under the patronage of the Ministry of the Economy, Labour and Sport"*



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## TBMCE 2026: CONFERENCE PROGRAMME

| Wednesday, 9. 9. 2026 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 9.00 - 10.00          | Registration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 10.00 - 10.45         | <b>Opening Ceremony</b> <ul style="list-style-type: none"> <li>Ministry of the Economy, Labour and Sport</li> <li>Chamber of Commerce and Industry of Štajerska</li> <li>University of Maribor</li> <li><b>Prof. dr. Zoran Novak</b>, University of Maribor, Dean of the Faculty of Chemistry and Chemical Engineering</li> <li><b>Prof. dr. Zdravko Kravanja</b>, University of Maribor, Faculty of Chemistry and Chemical Engineering, President of the TBMCE conference</li> </ul>                                                                                   |
| 10.45 – 12.15         | <b>Round Table</b><br><br><b>Pathways to Decarbonization: Alternative Energy and Carbon Capture and Utilization</b><br><br>Moderated by:<br><b>Assist. prof. dr. Tine Seljak</b> , Faculty of Mechanical Engineering, University of Ljubljana<br><br>Speakers:<br><b>dr. Mojca Lončnar</b> , SIJ Acroni d.o.o.<br><b>dr. Haris Salihgić Hrenko</b> , Talum d.d. Kidričevo<br><b>dr. Ilja Gasan Osojnik Črnivec</b> , Center for Development, Demonstration and Training for Carbon-Free Technologies (SI)<br><b>Davor Rašić</b> , Ministry of Infrastructure and Energy |
| 12.15– 13.00          | <b>Keynote Lecture</b><br><br><b>Circular Economy and Life-cycle Innovation: From Microalgae to Outer Space</b><br><br><b>Dr Matjaž Vidmar</b> , School of Engineering, The University of Edinburgh                                                                                                                                                                                                                                                                                                                                                                     |
| 13.00 – 14.30         | Lunch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |



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| 14.30 – 16.00 | <b>Panel discussion 1</b><br><br><b>What the FOAK: Why Promising Technologies Fail to Reach Industry?</b><br><br>Moderated by:<br><b>Prof. Blaž Likozar</b> , National Institute of Chemistry (SI)<br><br>Speakers:<br><b>Dr. Gregor Kosec</b> , ACIES BIO d.o.o.<br><b>Prof. Gašper Tavčar</b> , Institute Jožef Štefan<br><b>Dr. Igor Mihelič</b> , Melamin d.d. Kočevje<br><b>Dr. Robert Reinhardt</b> , AlgEn d.o.o.<br><b>Prof. Primož Oven</b> , University of Ljubljana, Biotechnical faculty |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16.00 – 16.30 | Coffee break                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 16.30 – 18.00 | <b>Panel discussion 2</b><br><br><b>Critical Raw Materials: Europe's Achilles' Heel – or Opportunity? Europe's dependence on imported critical raw materials</b><br><br>Moderated by:<br><b>Dr. Primož Oprčkal</b> , Slovenian National Building and Civil Engineering Institute (SI)                                                                                                                                                                                                                | <b>Lectures 1: From Research to Application: Cross-Sector Energy Technologies for the Climate Transition</b><br><br>Chair: Blaž Likozar, National Institute of Chemistry (SI)<br><br><b>ILIMITED: First-ever Ionic Liquid Sorbent Methanol Synthesis in Order to Enable Over 80% Yield</b><br><br><b>Anže Prašnikar</b> , National Institute of Chemistry (SI)<br><br><b>PeCATHs: A Sustainable Way to Store Hydrogen</b><br><br><b>Francisco Fabregat-Santiago</b> , Universitat Jaume I (ES)<br><b>Jose Mata</b> , Universitat Jaume I (ES)<br><b>Carmen Mejuto</b> , Universitat Jaume I (ES)<br><b>Rosario Vidal</b> , Universitat Jaume I (ES)<br><b>Elena Mas-Marzá</b> , Universitat Jaume I (ES)<br><b>Cristian Bachmann</b> , Universitat Jaume I (ES)<br><b>David Tilley</b> , University of Zurich (CH)<br><b>Thomas Moehl</b> , University of Zurich (CH)<br><b>Jordi Arbiol</b> , Catalan Institute of Nanoscience and Nanotechnology (ES)<br><b>Max Garcia-Melchor</b> , CIC EnergiGune (ES)<br><b>Conor Brennan-Pollak</b> , Trinity College Dublin (IE)<br><b>Nuria Mañés-Beltrán</b> , Comet Global Innovation (ES) |



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|         |              | <p><b>ILIMITED: Adsorbent Design for Process Intensification in CO<sub>2</sub> Valorisation to Methanol</b></p> <p><b>Filipe H. B. Sosa</b>, University of Aveiro (PT)<br/> <b>João Fabian</b>, University of Aveiro (PT)<br/> <b>Murilo Alcântara</b>, University of Aveiro (PT)<br/> <b>João A. P. Coutinho</b>, University of Aveiro (PT)</p> <p><b>NOVETROL: Application of LCA and S-LCA to low-TRL Technologies: A Case Study of a Novel Current-limiting Solution for the Energy Transition</b></p> <p><b>Martina Pucciarelli</b>, Spin Life s.r.l. (IT)<br/> <b>Matilde Cavalli</b>, University of Padova (IT)<br/> <b>Matteo Superchi</b>, Spin Life s.r.l. (IT)<br/> <b>Alessandro Manzardo</b>, University of Padova (IT)</p> <p><b>CarbNETs: CO<sub>2</sub> Capture, Thermal Energy Management, and Electrification Using Net-Zero Industrial Technologies for Decarbonisation</b></p> <p><b>Tomaž Čebela</b>, Center for Development, Demonstration and Training for Carbon-Free Technologies (SI)<br/> <b>Blaž Likozar</b>, National Institute of Chemistry (SI)<br/> <b>Janvit Teržan</b>, Center for Development, Demonstration and Training for Carbon-Free Technologies (SI)<br/> <b>Ilja Gasan Osojnik Črnivec</b>, Center for Development, Demonstration and Training for Carbon-Free Technologies (SI)</p> |
| 19.00 - | Get Together |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |



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| Thursday, 10. 9. 2026 |                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                         |
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| 8.00 – 9.00           | Registration                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9.00 - 9.45           | <b>Plenary Lecture</b><br><b>The Use of AI in Industrial Biotechnology Applications (TBC)</b><br><b>Prof. Antonis Kokossis</b> , CEng, FIChemE, FRSA, FIET & Leverhulme Visiting Professor at Imperial College, London;<br>European Federation, Sustainability Section, Chair<br>National Technical University of Athens (GR)<br>Chair: Prof. Zdravko Kravanja |                                                                                                                                                                                                                                                                                                                                                                                                         |
| 10.00 - 11.30         | <b>Panel discussion 3</b><br><br><b>Circularity of Material Flows in Slovenia: how to advance the use of secondary resources in SLO</b><br><br>Moderated by: Slovenian Centre for Circular Economy                                                                                                                                                             | <b>Lectures 2</b>                                                                                                                                                                                                                                                                                                                                                                                       |
|                       |                                                                                                                                                                                                                                                                                                                                                                | <b>Towards Decarbonizing Agri-Food Industrial Heat: A Case Study Applied to a Jam Waste Valorization Process</b><br><br><u><b>Carlos Sanz</b></u> , University of Salamanca (ES)<br><u><b>Alberto Almena</b></u> , University of Salamanca (ES)<br><u><b>Mariano Martín</b></u> , University of Salamanca (ES)                                                                                          |
|                       |                                                                                                                                                                                                                                                                                                                                                                | <b>Advancing Sustainable Shipping with Ammonia: An Integrated Techno-Economic and Environmental Assessment</b><br><br><u><b>Antonio Sánchez</b></u> , University of Salamanca (ES)<br><u><b>Richard Cabrera-Jiménez</b></u> , ETH Zurich, (CH)<br><u><b>Gonzalo Guillén-Gosálbez</b></u> , ETH Zurich, (CH)<br><u><b>Mariano Martín</b></u> , University of Salamanca (ES)                              |
|                       |                                                                                                                                                                                                                                                                                                                                                                | <b>A Chemical Clock for Polyolefin Pyrolysis: Time-Temperature Superposition of Product Yield Distributions</b><br><br><u><b>Tim Tetičkovič</b></u> , Scientific Research Centre Bistra (SI)<br><u><b>Dušan Klinar</b></u> , Scientific Research Centre Bistra (SI)<br><u><b>Klavdija Rižnar</b></u> , Scientific Research Centre Bistra (SI)<br><u><b>Darja Pečar</b></u> , University of Maribor (SI) |

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|               |                                                                                                                                                                                                                                                                                         | <b>Conversion of Driftwood into Biofuel: A Best Practice Example from Dravske Elektrarne Maribor</b><br><br><u>Polonca Ojsteršek</u> , Dravske elektrarne Maribor, d.o.o. (SI) |
|               |                                                                                                                                                                                                                                                                                         | TBC                                                                                                                                                                            |
| 11.30 - 12.00 | Coffee break                                                                                                                                                                                                                                                                            |                                                                                                                                                                                |
| 12.00 - 13.30 | <b>Bridging Science, Business, and Regions: Essential Steps for a Stronger Innovation Ecosystem</b><br><br><b>Marko Hren</b> , Head of the Smart Specialisation Coordination Division, Ministry of Local Self-Government, Cohesion and Regional Development of the Republic of Slovenia | <b>Lectures 3:</b> Slovenian National Building and Civil Engineering Institute (SI)                                                                                            |
|               |                                                                                                                                                                                                                                                                                         | TBC                                                                                                                                                                            |
| 13.30 - 14.45 | Lunch                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                |
| 14.45 - 15.15 | Poster session                                                                                                                                                                                                                                                                          |                                                                                                                                                                                |
| 15.15-15.30   | Presentation of the SL.BIO HUB Slovenia                                                                                                                                                                                                                                                 |                                                                                                                                                                                |
| 15.30 - 17.00 | <b>BIOEAST Pitching Event 2026</b><br><br>Circular Change in cooperation with SL.BIO HUB Slovenia, BIOEAST HUB Croatia                                                                                                                                                                  |                                                                                                                                                                                |
| 17.00 - 18.30 | <b>Panel discussion 4</b><br><br>Moderated by:<br>Slovenian National Building and Civil Engineering Institute (SI)                                                                                                                                                                      | <b>Lectures 4</b><br><br><b>Biofarms Cluster: Good Practices –</b><br>TBC                                                                                                      |
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|       |             | <p><b>The Future of the Circular Aluminum Economy: From Material Circularity to Performance-Based Circularity</b></p> <p><u>Varužan Kevorkijan</u>, Impol Aluminum Industry (SI)</p> <p><b>Digital and Standardized Governance for Circular Business Models: Industrial Symbiosis in Slovenia</b></p> <p><u>Erika Džajić Uršič</u>, Rudolfovo – Science and Technology Centre (SI)</p> <p><b>Consumer Decision-Making in the Circular Bioeconomy: Evidence from a Multi-Country Discrete Choice Experiment</b></p> <p><u>Karolina Kosjek</u>, University of Ljubljana (SI)<br/> <u>Matej Fatur</u>, University of Ljubljana (SI)<br/> <u>Damianos Michailidis</u>, Rainno Idiotiki Kefalaioushiki Etaireia (GR)<br/> <u>Giuseppe Bogani</u>, Lombardy Green Chemistry Association (IT)<br/> <u>Urte Raubytė</u>, AgriFood Lithuania DIH (LT)<br/> <u>Luka Juvančič</u>, University of Ljubljana (SI)</p> |
|       |             | <p><b>Opportunities and Challenges of AI Support in the Assessment of Environmental Impacts of Circular Bio-Based Products</b></p> <p><u>Luka Goropečnik</u>, University of Ljubljana (SI)<br/> <u>Matej Fatur</u>, VCG.AI GMBH, Stuttgart, (DE)<br/> <u>Jože Kropivšek</u>, University of Ljubljana (SI)<br/> <u>Matej Jošt</u>, University of Ljubljana (SI)<br/> <u>Karolina Kosjek</u>, University of Ljubljana (SI)<br/> <u>Javier Vargas</u>, VCG.AI GMBH, Stuttgart, (DE)<br/> <u>Damianos Michailidis</u>, Rainno Idiotiki Kefalaioushiki Etaireia (GR)<br/> <u>Luka Juvančič</u>, University of Ljubljana (SI)</p>                                                                                                                                                                                                                                                                              |
| 20.00 | Gala Dinner |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |



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Friday, 11. 9. 2026

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| 9.00 – 10.30 | <b>Lectures 5</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |
|              | <b>Keynote lecture</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |
| 9.00-9.30    | <b>Multiscale Approaches to Develop a Biocircular Economy</b><br><br><b>Carlos Sanz</b> , University of Salamanca (ES)<br><b>Vanessa Villazón-León</b> , Instituto Tecnológico de Aguascalientes (MX)<br><b>Roberto Cifuentes</b> , University of Salamanca (ES)<br><b>Manuel Taifouris</b> , University of Salamanca (ES)<br><b>Mariano Martín</b> , University of Salamanca (ES)                                                                                                                                                                                                                                                                  |  |
| 9.30-9.50    | <b>Unlocking Underutilized Woody Biomass: Extractives of Damaged and Bark Beetle-Attacked Norway Spruce Trees</b><br><br><b>Vanja Štolcer</b> , Kompetenzzentrum Holz GmbH (AT)<br><b>Ida Poljanšek</b> , University of Ljubljana (SI)<br><b>Viljem Vek</b> , University of Ljubljana (SI)<br><b>Primož Oven</b> , University of Ljubljana (SI)                                                                                                                                                                                                                                                                                                     |  |
| 9.50-10.10   | <b>Effect of Storage Conditions on the Extractives Content in Silver Fir (<i>Abies alba</i> Mill.) Bark</b><br><br><b>Peter Hrovatič</b> , University of Ljubljana (SI)<br><b>Ida Poljanšek</b> , University of Ljubljana (SI)<br><b>Urša Osolnik</b> , University of Ljubljana (SI)<br><b>Primož Oven</b> , University of Ljubljana (SI)<br><b>Viljem Vek</b> , University of Ljubljana (SI)                                                                                                                                                                                                                                                       |  |
| 10.10-10.30  | <b>Assessment of the Economic Feasibility and Environmental Sustainability of Acid Whey Valorization with Ultrafiltration</b><br><br><b>Matej Fatur</b> , University of Ljubljana (SI)<br><b>Stane Kavčič</b> , University of Ljubljana (SI)<br><b>Karolina Kosjek</b> , University of Ljubljana (SI)<br><b>Bojana Bogovič Matijašič</b> , University of Ljubljana (SI)<br><b>Giulia Di Filippo</b> , University of Udine (IT)<br><b>Niccolo Renoldi</b> , University of Udine (IT)<br><b>Nadia Innocente</b> , University of Udine (IT)<br><b>Jure Gramc</b> , University of Ljubljana (SI)<br><b>Luka Juvančič</b> , University of Ljubljana (SI) |  |

| 10.30 - 12.00 | Lectures 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lectures 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
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|               | <p><b>Metrology as the Foundation of Trust in Circular Aluminum: From Impol's Industrial Practice to Advanced Tools for European Circular Industry</b></p> <p><u>Varužan Kevorkijan</u>, Impol Aluminum Industry (SI)</p>                                                                                                                                                                                                                                                                                                   | <p><b>Wastewater Treatment Plants as Circular and Flexible Energy Hubs through Sludge Management, Biogas Utilization and Renewable Energy Integration</b></p> <p><u>Hazem Han Ashour</u>, University of Ljubljana (SI)<br/> <u>Tine Seljak</u>, University of Ljubljana (SI)<br/> <u>Andrea Turolla</u>, Politecnico di Milano (IT)<br/> <u>Mihael Sekavčnik</u>, University of Ljubljana (SI)</p>                                                                                                                                                                                                        |
|               | <p><b>Bio-Based Methacrylate Miniemulsions for High-Performance Sustainable Coating Applications</b></p> <p><u>Blaž Užmah</u>, Helios Resins (SI)<br/> <u>Natalija Končan Volmajer</u>, Helios Resins (SI)<br/> <u>Zala Kožuh</u>, Helios Resins (SI)<br/> <u>Martin Ocepek</u>, Helios Resins (SI)<br/> <u>Tomaž Pirman</u>, Helios Resins (SI)<br/> <u>Jožefa Zabret</u>, Helios Resins (SI)<br/> <u>Tina Razboršek</u>, Helios Resins (SI)</p>                                                                           | <p><b>Developing a Surrogate Reactor Network Model for Sewage Sludge Gasification and a Reduced Kinetic Mechanism for CFD Use</b></p> <p><u>Gholamreza Masoudi Rad</u>, University of Ljubljana (SI)<br/> <u>Miha Sekavčnik</u>, University of Ljubljana (SI)<br/> <u>Tine Seljak</u>, University of Ljubljana (SI)</p>                                                                                                                                                                                                                                                                                   |
|               | <p><b>Towards Sustainable Packaging Materials: Poly(vinyl alcohol) Biocomposite Films Reinforced with Green Fillers</b></p> <p><u>Urša Osolnik</u>, University of Ljubljana (SI)<br/> <u>Peter Hrovatič</u>, University of Ljubljana (SI)<br/> <u>Viljem Vek</u>, University of Ljubljana (SI)<br/> <u>Primož Oven</u>, University of Ljubljana (SI)<br/> <u>Miha Humar</u>, University of Ljubljana (SI)<br/> <u>Ida Poljanšek</u>, University of Ljubljana (SI)</p>                                                       | <p><b>Experimental Evaluation of Dry Sludge Combustion from Sewage Treatment Plants</b></p> <p><u>Muhammad Al Yousaf</u>, University of Ljubljana (SI)<br/> <u>Mihael Sekavčnik</u>, University of Ljubljana (SI)<br/> <u>Tine Seljak</u>, University of Ljubljana (SI)</p>                                                                                                                                                                                                                                                                                                                               |
|               | <p><b>Optimization of Clay-Based Plasters Reinforced with Hemp Shives: Effect of Sand-Clay-Shives Ratio on Mechanical Properties (CHOICE)</b></p> <p><u>Shivakumar Mani</u>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <u>Vilma Ducman</u>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <u>Lea Žibret</u>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <u>Alenka Pavlin</u>, TERMIT (SI)<br/> <u>Primož Zorec</u>, COGREEN d.o.o., (SI)</p> | <p><b>Assessing Natural Yeasts as Immobilizable Biocatalysts for Bioremediation of Metal-Contaminated Soil and Valorization of Waste Cooking Oil</b></p> <p><u>Tadeja Vaidič</u>, University of Maribor (SI)<br/> <u>Tjaša Zajec</u>, University of Maribor (SI)<br/> <u>Eva Horvat</u>, University of Maribor (SI)<br/> <u>Mišel Fridl</u>, University of Maribor (SI)<br/> <u>Vladyslav Zdanskyi</u>, University of Maribor (SI)<br/> <u>Mykola Honcharenko</u>, University of Ljubljana (SI)<br/> <u>Nick Leben</u>, University of Maribor (SI)<br/> <u>Brin Hlade</u>, University of Maribor (SI)</p> |



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|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Gordana Hojnik Podrepšek</b> , Javno podjetje Snaga, d.o.o. (SI)<br><b>Katja Vasić</b> , University of Maribor (SI)<br><b>Marjanca Starčič Erjavec</b> , University of Maribor (SI), University of Ljubljana (SI) |
|             | <b>Pretreatment-Enabled Enzymatic Depolymerization of PET Polymer for High-Purity Terephthalic Acid Recovery</b><br><br><u><b>Tamilpavai Allwin Mabes Rai</b></u> , IOS, Institute of Environmental Protection and Sensors (SI), University of Maribor (SI)<br><b>Mojca Poberžnik</b> , IOS, Institute of Environmental Protection and Sensors (SI)<br><b>Maša Knez Marevci</b> , University of Maribor (SI)<br><b>Urban Bren</b> , University of Maribor (SI)<br><b>Aleksandra Lobnik</b> , IOS, Institute of Environmental Protection and Sensors (SI), University of Maribor (SI) |                                                                                                                                                                                                                      |
| 12.00-13.00 | BRUNCH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                      |



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| Slot |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| 1    | <b>THE FORMALIN PRODUCTION FROM WASTE</b><br><i>Anita Kovač Kralj</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2    | <b>IMAGE-BASED ASSESSMENT OF PLEUROTUS OSTREATUS MYCELIAL COLONIZATION ON MUNICIPAL SEWAGE SLUDGE-SUPPLEMENTED SUBSTRATES</b><br><i>Erik Mihelič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Marjana Simonič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Katarina Zavrl</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Olivija Plohl</i> , University of Maribor, Faculty of Mechanical Engineering (SI)                                                                                                                                                                                                              |
| 3    | <b>TECHNOLOGY ACCEPTANCE MODEL ANALYSIS FOR A POTENTIAL SMART WASTE SEGREGATION SYSTEM IN MASHHAD CITY</b><br><i>Barmak Sadri</i> , Ferdowsi University of Mashhad, Faculty of Literature & Humanities of Dr.Ali Shariati Department of Geography,Mashhad, (IR)<br><i>Baratali Khakpoor</i> , Ferdowsi University of Mashhad, Faculty of Literature & Humanities of Dr.Ali Shariati Department of Geography,Mashhad, (IR)<br><i>Mohammad Ajza Shokouhi</i> , Ferdowsi University of Mashhad, Faculty of Literature & Humanities of Dr.Ali Shariati Department of Geography,Mashhad, (IR)                                                                                                                                                         |
| 4    | <b>A CIRCULAR MONITOR TOOL FOR CITIES: AN INDICATOR FRAMEWORK FOR LOCAL PLANNING</b><br><i>Klavdija Rižnar</i> , Znanstveno-raziskovalno središče Bistra (SI)<br><i>Alja Širovnik</i> , Znanstveno-raziskovalno središče Bistra (SI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 5    | <b>GEOTECHNICAL CHARACTERIZATION OF RED GYPSUM</b><br><i>Tinkara Marija Podnar</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture (SI)<br><i>Darko Zakelšek</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture (SI)<br><i>Gregor Kravanja</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture; Faculty of Chemistry and Chemical Engineering (SI)<br><i>Grega Kos</i> , Cinkarna Celje d.d. (SI)<br><i>Dejan Verhovšek</i> , Cinkarna Celje d.d. (SI)<br><i>Bojan Žlender</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture (SI) |
| 6    | <b>OPTIMIZATION OF RED GYPSUM GRANULATION AND STABILIZATION FOR SUSTAINABLE CONSTRUCTION</b><br><i>Gregor Kravanja</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture; Faculty of Chemistry and Chemical Engineering (SI)<br><i>Grega Kos</i> , Cinkarna Celje d.d. (SI)<br><i>Dejan Verhovšek</i> , Cinkarna Celje d.d. (SI)<br><i>Tinkara Marija Podnar</i> , University of Maribor, Faculty of Civil Engineering, Transportation Engineering and Architecture (SI)                                                                                                                                                                                                                        |
| 7    | <b>POLYCARBONATE RECYCLING USING SUPERCRITICAL ALCOHOLS</b><br><i>Julija Ribarič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Mihael Irgolič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Maja Čolnik</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Mojca Škerget</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)                                                                                                                                                                                                                                                                      |
| 8    | <b>HYDROTHERMAL CONVERSION OF WASTE CIGARETTE FILTERS</b><br><i>Tajana Bistrovič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Maja Čolnik</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Mihael Irgolič</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Danijela Urbančl</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br><i>Mojca Škerget</i> , University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)                                                                                                                                                               |

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| 9  | <p><b>COMPOSITION-CONTROLLED FORMATION AND SWELLING STABILITY OF CROSSLINKER-FREE POLYELECTROLYTE HYDROGELS FROM QUATERNIZED CHITOSAN AND HYALURONIC ACID</b></p> <p><i>Lidija Tušek</i>, SRC Bistra Ptuj (SI)<br/> <i>Kenan Kapetanović</i>, University of Maribor, Faculty of Mechanical Engineering (SI)<br/> <i>Matej Bračič</i>, University of Maribor, Faculty of Mechanical Engineering (SI)<br/> <i>Lidija Fras Zemljič</i>, University of Maribor, Faculty of Mechanical Engineering (SI)</p>                                                                                                                                                                                                                                                                                                                                                                                                |
| 10 | <p><b>VIRIDI ACADEMY: CROSS-BORDER E-LEARNING FOR CIRCULAR BUSINESS MODELS IN SMES</b></p> <p><i>Lidija Tušek</i>, SRC Bistra Ptuj (SI)<br/> <i>Robert Novak</i>, SRC Bistra Ptuj (SI)<br/> <i>Klavdija Rižnar</i>, SRC Bistra Ptuj (SI)<br/> <i>Ksenija Vuk Kostanjevec</i>, SRC Bistra Ptuj (SI)<br/> <i>Tjaša Glažar</i>, SRC Bistra Ptuj (SI)<br/> <i>Dragica Marinič</i>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <i>Primož Oprčkal</i>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <i>Petra Arzenšek</i>, Chamber of Commerce and Industry of Slovenia (SI)<br/> <i>Antonija Božič Cerar</i>, Chamber of Commerce and Industry of Slovenia (SI)<br/> <i>Neža Einspieler</i>, Economic Chamber of Carinthia (AT)<br/> <i>Kathrin Gindl</i>, Energieforum Kärnten (AT)<br/> <i>Barbara Wrolich</i>, Slovenska gospodarska zveza (AT)</p> |
| 11 | <p><b>CONTROLLING CALCIUM CARBONATE POLYMORPHISM IN CO<sub>2</sub>-BASED PRECIPITATION: VATERITE, ARAGONITE AND SCALENOHEDRAL CALCITE TOWARDS MICROREACTOR SYNTHESIS</b></p> <p><i>Tim Tetičkovič</i>, SRC Bistra Ptuj (SI)<br/> <i>Dušan Klinar</i>, SRC Bistra Ptuj (SI)<br/> <i>Klavdija Rižnar</i>, SRC Bistra Ptuj (SI)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 12 | <p><b>DEVELOPMENT AND EVALUATION OF A PYTHON-BASED FLUID SIMULATION FRAMEWORK USING THE LATTICE BOLTZMANN METHOD</b></p> <p><i>Jure Konjar</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Miloš Bogataj</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13 | <p><b>VALORISATION OF FLAXSEED CAKE THROUGH RANDALL EXTRACTION OF BIOACTIVE COMPOUNDS</b></p> <p><i>Kristina Genc</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Maja Čolnik</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Marjana Simonič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Aleksandra Petrovič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Lidija Čuček</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Pia Keršič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</p>                                                                                                                                                                       |
| 14 | <p><b>ENVIRONMENTAL ASSESSMENT OF BIOBASED PRODUCTS EXPOSED TO DIFFERENT pH CONDITIONS</b></p> <p><i>Majda Pavlin</i>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <i>Sara Tominc</i>, Slovenian National Building and Civil Engineering Institute (SI)<br/> <i>Lisbeth M. Ottosen</i>, Technical University of Denmark (DK)<br/> <i>Guang Ye</i>, Delft University of Technology, Delft (NL)<br/> <i>Nina Štirmer</i>, University of Zagreb (HR)<br/> <i>Ivana Carević</i>, University of Zagreb (HR)<br/> <i>Tero Luukkonen</i>, University of Oulu (FI)<br/> <i>Vilma Ducman</i>, Slovenian National Building and Civil Engineering Institute (SI)</p>                                                                                                                                                                                                                   |
| 15 | <p><b>POLYSACCHARIDE-FUNCTIONALIZED MAGNETIC NANOPARTICLES FOR THE REMOVAL OF STRATEGIC METALS FROM PRINTED CIRCUIT BOARDS</b></p> <p><i>Laura Furman</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Marjana Simonič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Sašo Gyergyek</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI), Jožef Stefan Institute (SI)<br/> <i>Lidija Fras Zemljič</i>, University of Maribor, Faculty of Mechanical Engineering (SI)<br/> <i>Olivija Plohl</i>, University of Maribor, Faculty of Mechanical Engineering (SI)</p>                                                                                                                                                                                                                             |



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| 21 | <b>CONTINUOUS-FLOW SYNTHESIS OF CARBOXYMETHYL DEXTRAN-COATED MAGNETIC IRON OXIDE NANOPARTICLES IN A MODULAR MICROREACTOR</b><br><i>Ana Mohor, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</i><br><i>Olivija Plohl, University of Maribor, Faculty of Mechanical Engineering (SI)</i><br><i>Sašo Gyergyek, Institut Jožef Stefan, (SI)</i><br><i>Andreja Nemet, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</i>                                                                                                                                                                                                                                                             |
| 22 | <b>MULTI-OBJECTIVE TECHNO-ECONOMIC ASSESSMENT OF ONSHORE WIND TURBINE CONFIGURATIONS UNDER UNCERTAINTY</b><br><i>David Tian Hren, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</i><br><i>Zorka novak Pintarič, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</i><br><i>Andreja Nemet, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</i>                                                                                                                                                                                                                                                                                                           |
| 23 | <b>SURROGATE NEURAL NETWORK MODELING OF BIOMASS INDIRECT GASIFICATION: PREDICTING SYNGAS COMPOSITION AND OPTIMIZING PROCESS CONDITIONS FOR RENEWABLE HEXAMINE SYNTHESIS</b><br><i>Roberto Cifuentes García, Universidad de Salamanca, Facultad de Ciencias Químicas (ES)</i><br><i>Mariano Martín, Universidad de Salamanca, Facultad de Ciencias Químicas (ES)</i><br><i>Fernando Millán, MAXAMCORP INTERNATIONAL (ES)</i><br><i>Unai Elizundia, MAXAMCORP INTERNATIONAL (ES)</i><br><i>Luis Arturo Carranza, MAXAMCORP INTERNATIONAL (ES)</i><br><i>Fernando Maria Beitia, MAXAMCORP INTERNATIONAL (ES)</i><br><i>Jose Maria Castresana, MAXAMCORP INTERNATIONAL (ES)</i><br><i>Mateusz Marek Hass, MAXAMCORP INTERNATIONAL (ES)</i> |
| 24 | <b>MAIZE COBS AS CIRCULAR BIO-RESOURCES: QUALITY AND END-OF-WASTE PERSPECTIVES</b><br><i>Uroš Novak, National Institute of Chemistry (SI)</i><br><i>Katja Makovšek, National Institute of Chemistry (SI)</i><br><i>Blaž Likozar, National Institute of Chemistry (SI)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| 26 | <p><b>DEEP EUTECTIC SOLVENTS AS REACTION MEDIA FOR THE SOLVOTHERMAL SYNTHESIS OF COPPER-BASED METAL-ORGANIC FRAMEWORKS</b></p> <p><i>Patricija Završki</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Danijela Urbanc</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Silvo Hribernik</i>, University of Maribor, Faculty of Electrical Engineering and Computer Science (SI)<br/> <i>Muzafera Paljevac</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Darja Pečar</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Lidija Čuček</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Aleksandra Petrovič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</p> |
| 27 | <p><b>COMPARATIVE LIFE CYCLE ASSESSMENT OF FOSSIL-BASED METHANOL AND E-METHANOL PRODUCED USING CO<sub>2</sub> FROM DIFFERENT POINT SOURCES</b></p> <p><i>Tinkara Ošlovnik</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Matjaž Denac</i>, University of Maribor, Faculty of Economics and Business (SI)<br/> <i>Zorka Novak Pintarič</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)<br/> <i>Lidija Čuček</i>, University of Maribor, Faculty of Chemistry and Chemical Engineering (SI)</p>                                                                                                                                                                                                                                                                                                                        |