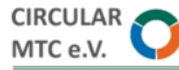




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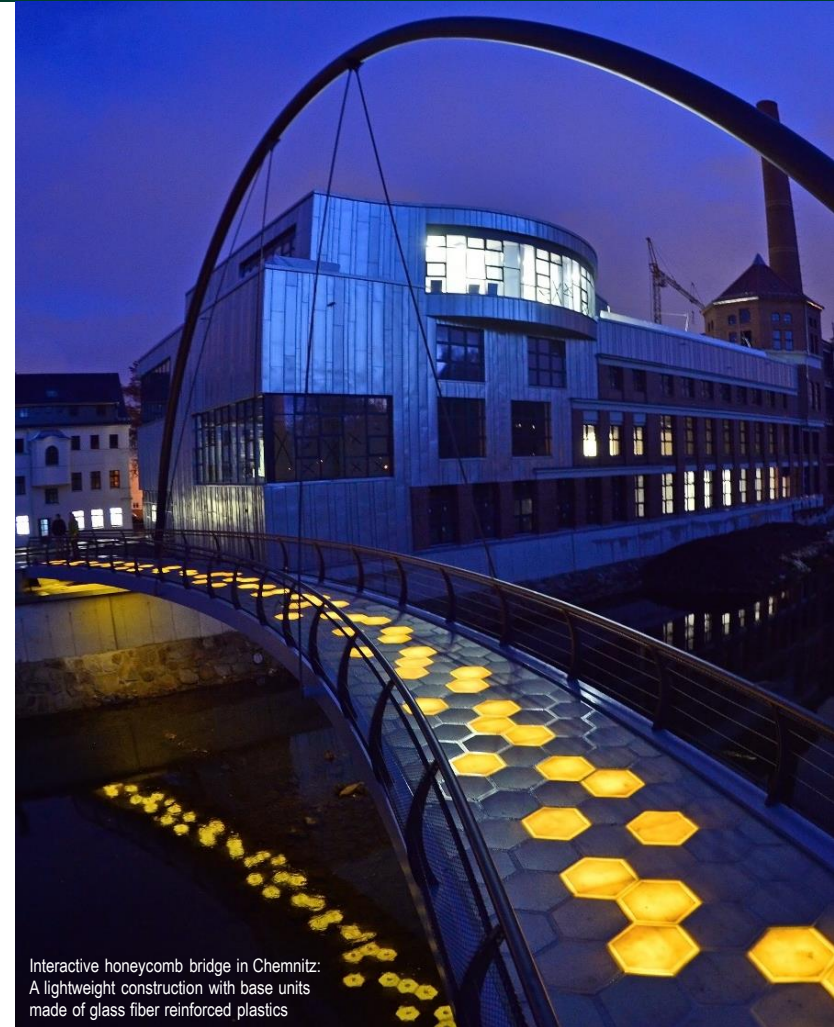
Future Technologies Across Borders

MERGE/TU Chemnitz, WUST Wroclaw, Circular MTC e.V. and DOPAK



Future Technologies Across Borders 10th-11th April 2025

- Patronage: Michael Kretschmer, Prime Minister of Saxony
Szymon Oglaza, Marshal of Opolskie Region
Paweł Gancarz, Marshal of Lower Silesia Region
- Conference venue: Hotel Zamek Topacz Resort & Art SPA
ul. Templariuszy 1, 55-040 Ślęza/Wroclaw
- Conference language: Polish, German (with simultaneous translation)



Interactive honeycomb bridge in Chemnitz:
A lightweight construction with base units
made of glass fiber reinforced plastics

10th April 2025

Industry challenges

- 09:00 Registration
- 10:00 Press conference
- 11:00 **Welcome speeches**
- Paweł Gancarz
Marshal of Lower Silesia Region
- Prof. Arkadiusz Wójs
Rector of Wrocław University of Science and Technology
- 11:20 **Greetings**
- Dr Marcin Kulasek/Dr Karolina Ziolo-Pużuk
Minister of Science and Higher Education of Poland
 - Michael Kretschmer (video message)
Prime Minister of Saxony
 - Szymon Ogłaza
Marshal of Opolskie Region
 - Dr. Thomas Schmidt
Former State Minister of Regional Development,
Member of the European Committee of the Regions
- 12:30 Networking Lunch

- 13:30 *Composites: Key Enabler for sustainable aviation (DE)*
M. Fette, CEO of CTC GmbH (an Airbus Company), Stade
- 13:50 *Technologies for green fuels (PL)*
A. Majoch, CEO of Orlen (requested)
- 14:10 *New approaches to plastics processing (DE)*
J. Mitzler, KraussMaffei Technologies GmbH, Munich
- 14:30 *Green energy for production processes (PL)*
A. Jeżewski, CEO of Promet-Plast, Oława
- 14:50 *Bio-based lightweight components (DE)*
H. Becker, BMW Group, Munich
- 15:10 *High temperature reversible fuel cells with improved durability (PL)*
Prof. T. Uhl, HydrogenTech, Kraków
- 15:30 Networking Coffee

16:00 Panel discussion: Future Technologies

- Dr Marcin Kulasek/Dr Karolina Ziolo-Pużuk
Minister of Science and Higher Education of Poland,
Warsaw (requested)
 - Prof. Arkadiusz Wójs
Rector of Wrocław University of Science and Technology
 - Prof. Lothar Kroll
Coordinator of Cluster of Excellence MERGE,
Chemnitz University of Technology
 - Prof. Christian Hopmann
Head of Institute for Plastics Processing, RWTH Aachen University
 - Ursula Steiner
CEO Dopak sp. z o.o., Wrocław
 - Hubert Cichocki
CEO Sieć Badawcza Łukasiewicz
 - Prof. Jarosław Bosy
Rector of Wrocław University of Environmental and Life Science
 - Dr. Stephan Meyer
District Administrator Görlitz
- 17:15 Networking Coffee
- 19:00 Conference Dinner

Conference language: Polish, German
(with simultaneous translation)

Program is subject to change

Industry meets Science

11th April 2025

Session A: Intelligent structures and production systems

- 09:00 *Novel FRP components for highly dynamically loaded crushing machines (DE)*
N. Kaufmann, Sandvik Mining and Construction Central Europe GmbH
- 09:15 *Properties of multiple recycled polyolefin based films for sealing application (PL)*
Prof. K. Sztustakiewicz, Wrocław University of Science and Technology
- 09:30 *International advanced production technologies (DE)*
R. Wertheim, CIRP Honorary Fellow, Israel (requested)
- 09:45 *Additive manufacturing (PL)*
A. Ejsmont-Palińska, BIBUS MENOS Sp. z o.o., Gdańsk
- 10:00 Networking Coffee

Session B: Circular economy and energy transition

- 09:00 *New Beverage Packaging Technology (PL)*
M. Prałat, REEND Sp. z o. o., Krzemieniewo
- 09:15 *Material degradation during multiple recycling loops (DE)*
I. Pfisterer, Mercedes-Benz AG, Sindelfingen (requested)
- 09:30 *Energy storage technologies in post-mining areas to support energy transformation (PL)*
Prof. P. Moczko, Wrocław University of Science and Technology
- 09:45 *New ways in vehicle recycling (DE)*
S.-O. Smolka, MAR LRP Holdinggesellschaft mbH, Leipzig
- 10:00 Networking Coffee

Session C: Function-integrated systems

- 09:00 *Self vectoring drones (PL)*
R. Krause, Peravia Development Sp. z o.o., Narok
- 09:15 *Propulsion technologies for spacecraft (DE)*
Prof. M. Tajmar, TUD Dresden University of Technology
- 09:30 *Hydrogen storage and transmission (PL)*
Dr. M. Bocian, Wrocław University of Science and Technology
- 09:45 *Bipolar plates using injection molding technology (DE)*
M. Landl, Engel Austria;
Dr. J. Emmrich, Chemnitz University of Technology
- 10:00 Networking Coffee

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Industry meets Science

11th April 2025

Session A: Intelligent structures and production systems

- 10:30 *Lightweight structures in applications (DE)*
Prof. H. Seidlitz, Brandenburg University of Technology Cottbus-Senftenberg
- 10:45 *Innovative technologies in product solutions (PL)*
A. Socha, Plastics Application Design and Development Center, Grupa Azoty
- 11:00 *Plastics Processing in Industry (DE)*
Prof. C. Hopmann, RWTH Aachen University
- 11:15 Networking Coffee
- 11:30 *Series production of high-performance structures (DE)*
Prof. L. Kroll, Chemnitz University of Technology
- 11:45 *Artificial intelligence (PL)*
Prof. M. Piasecki, Wrocław University of Science and Technology

Session B: Circular economy and energy transition

- 10:30 *Circular Economy (PL)*
Prof. J. Kulczycka, Mineral and Energy Economy Research Institute of the Polish Academy of Sciences, Kraków
- 10:45 *Climate-neutral circular economy (DE)*
Prof. N. Modler, TUD Dresden University of Technology
- 11:00 *Injection-molded components made from recyclates (PL)*
Prof. D. Sykutera, Bydgoszcz University of Technology
- 11:15 Networking Coffee
- 11:30 *Increasing the recycling rate and accelerating the circular economy (PL)*
Dr. A. Kozera-Szałkowska, Fundacja PlasticsEurope Polska
- 11:45 *Sustainable natural fiber-biopolyamide composite for practice (DE)*
Dr. R. Rinberg, Chemnitz University of Technology

Session C: Function-integrated systems

- 10:30 *Textile technologies for future (DE)*
Dr. J. Tröltzsch, Karl Mayer Technische Textilien GmbH, Chemnitz
- 10:45 *Resource-efficient 3D printing technologies (PL)*
Prof. T. Kurzynowski, Wrocław University of Science and Technology
- 11:00 *Carbon LabFactory as a new research campus for integrative lightweight structures (DE)*
Dr. M. Naumann, Chemnitz University of Technology
- 11:15 Networking Coffee

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Program is subject to change

Industry meets Science

11th April 2025

Session D: Healthcare and medical technologies

- 12:00 Networking Lunch
- 13:15 *Point-of-Care Diagnostics for One-Health (DE)*
U. Eckert, Fraunhofer IWU
- 13:30 *Engineering Clinicians' Ideas: Bridging Innovation and Patient Care (PL)*
G. Wróblewski, Medinice S.A., Warszawa
- 13:45 *Intelligent technology in animal husbandry (DE)*
Prof. A. Starke, Leipzig University
- 14:00 *Novel chemical approach as Hybrid Combinatorial Substrate Library (PL)*
Prof. M. Drag, Wrocław University of Science and Technology
- 14:15 Networking Coffee

Session E: Ecological solutions in civil engineering

- 12:00 Networking Lunch
- 13:15 *Composite Technologies for the future (PL)*
Dr. A. Czulak, Polski Klaster Technologii Kompozytowych; Prof. P. Pichniarczyk, Łukasiewicz Instytutu Ceramiki i Materiałów Budowlanych, Kraków
- 13:30 *Improvement of surfaces through material-compatible coatings (DE)*
Dr. M. Gedan-Smolka, Leibniz-Institut für Polymerforschung Dresden
- 13:45 *The use of artificial intelligence in machines (PL)*
K. Kuśmierczak, Dopak Sp. z o.o.
- 14:00 *3D printing for large format lightweight structures (DE)*
Prof. S. Scholz, Zittau/Görlitz University of Applied Sciences, Fraunhofer IWU
- 14:15 Networking Coffee

Session F: Key enabling technologies and Digitalization

- 12:00 Networking Lunch
- 13:30 *Resource efficiency in the production of carbon fibers (DE)*
M. Kroll, Deakin University, Australia
- 13:45 *Effect of new betulin derivatives on the replication cycle control of endogenous retroviruses (PL)*
Prof. E. Tkacz, Akademia Śląska, Katowice
- 14:00 *Separation technologies of materials (DE)*
Prof. H. Lieberwirth, TU Bergakademie Freiberg
- 14:15 Networking Coffee

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Program is subject to change

Industry meets Science

11th April 2025

Session D: Healthcare and medical technologies

- 14:30 *Objective-driven AI for medical applications (PL)*
Prof. B. Franczyk, Leipzig University,
Wroclaw University of Economics
- 14:45 *In vitro diagnostics and medical robotics (DE)*
Dr. J. Trepte, imk Health Intelligence
GmbH, Chemnitz
- 15:00 *Supporting medical decisions, surgeries and rehabilitation using virtual reality (PL)*
Prof. C. Pezowicz, Wroclaw University of
Science and Technology
- 15:15 *Vascular, multifunctional catheter for aneurysm treatment (DE)*
Dr. C. Zopp, Chemnitz University of
Technology

Session E: Ecological solutions in civil engineering

- 14:30 *Potential of additive technologies for the construction industry (DE)*
Prof. S. Gelbrich, M. Abstoß, Chemnitz
University of Technology
- 14:45 *tbd (PL)*
- 15:00 *Forschungsbau Hydrogen Lab Görlitz (DE)*
Prof. W.-G. Drossel, Dr. S. Schmidt, M.
Satora, Fraunhofer IWU
- 15:15 *Low-emission, circular polyolefin solutions for food packaging (PL)*
Dr. Tomasz Listoś, Orlen

Session F: Key enabling technologies and Digitalization

- 14:30 *Collaboration across borders: Example for a bilateral project (PL)*
Dr. P. Nossol, Fraunhofer IWU
Dr. A. Pietruszka, Opole University
- 14:45 *Braided structures as reinforcement solutions for construction applications (DE)*
T. Zocher, thoenes Dichtungstechnik GmbH,
Klipphausen
- 15:00 *Biomedical applications (PL)*
Prof. P. Skowron, University of Gdansk
- 15:15 *Technology bridges between Saxony and Silesia (DE)*
Dr. S. Meyer, District Administrator Görlitz

All participants in one room/hall

- 15:30 *Science-business cooperation: Opportunities and barriers (PL)*
Prof. Marek Jałbrzykowski, Bialystok University of Technology
- 15:50 Closing remarks
- 16:00 Many thanks and goodbye

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