

Mycelium Metamorphosis

International Symposium on Bio-materials in Architecture and Design

Program

17th March 2025 online

13:00 – 13:15 (PL) / 9:00–9:15 (CL)

Welcome and Opening Remarks (PL): Prof. Agata Bonenberg and Prof. Agata Gawlak, Dean of the Faculty of Architecture, Poznan University of Technology. Welcome and Opening Remarks (CL): Prof. Gabriel Felmer and Prof. Gabriela Manzi, Faculty of Architecture and Urbanism. Welcome address and introduction to the key themes of the symposium, focusing on the integration of bio-materials and mycelium in sustainable design, A. Bonenberg, G. Felmer.

Session 1. Architecture & Material Science

Panel moderator: Prof. Gabriel Felmer

13:15 - 13:30 hrs. (PL) / 9:15 -9:30 hrs. (CL)

Professor Agata Bonenberg

Poznan University of Technology, Faculty of Architecture

Presentation title: *"Myco-Aesthetic: Integrating Fungal Materials in Design and Artistic Contexts to Explore New Forms of Expression and Functionalities"*

13:30 - 13:45 hrs. (PL) / 9:30-9:45 hrs. (CL)

Professor (PhD) Rodrigo Morales-Vera

Center for Biotechnology of Natural Resources, Catholic University of Maule

Presentation title: *"Mycelium technology: From Materials to Bioremediation "* (Project FIC-R Maule 2023)

13:45-14:00 (PL) / 9:45-10:00 (CL)

Professor Maciej Sydor

Poznan University of Life Sciences, Research, and Teaching Team of the Fundamentals of Machine Design

Presentation title: *"Fungal Species and Applications of Mykomaterials, a Review of Scientific and Patent Literature"*

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DISCUSSION & BREAK 14:00-14:30 (PL) / 10:00-10:30 (CL)

Session 2. Forests Science & Architecture

Panel moderator: Prof. Agata Bonenberg

14:30 - 14:45 hrs. (PL) / 10:30-10:45 hrs. (CL)

Assistant Professor (PhD) Gabriel Felmer

Institute of Housing, Faculty of Architecture and Urbanism, University of Chile

Presentation title "*Developing Mycelium Bio-Complements for a Regenerative-Climate Architecture*" (Project Fondecyt iniciación 2023)

14:45 - 15:00 hrs. (PL) / 10:45-11:00 hrs. (CL)

Assistant Professor (PhD) Consuelo Fritz

Department of Development in Forest Products, Faculty of Forestry Sciences and Nature Conservation, University of Chile

Presentation title: "*Mycelium-based Composites: A Sustainable Approach for Innovative Building Materials*"

15:00 - 15:15 hrs. (PL) / 11:00-11:15 hrs. (CL)

Professor Grzegorz Cofta

Poznan University of Life Sciences, Laboratory of Wood Preservation and Conservation

Presentation title: "*Resistance of mycocomposites to brown and white decay fungi*"

15:15 - 15:30 hrs. (PL) / 11:15-11:30 hrs. (CL)

Prof. Agata Bonenberg, Msc Anna Lewandowska,

Poznan University of Technology, Faculty of Architecture

Presentation title: "*Mycelium-Based Composites in Architectural Applications: Studies of Material Acceptance and Development Trends*"

DISCUSSION & BREAK 15:30-16:00 (PL) / 11:30-12:00 (CL)

Session 3. Design & Material Science

Panel moderator: Prof. Gabriel Felmer

16:00 - 16:15 hrs. (PL) / 12:00-12:15 hrs. (CL)

Assistant professor (PhD) Agata Zdarta

Poznan University of Technology, Division of Organic Chemistry, Poznan, Poland

Presentation title: "*Studies on the influence of selected dyes and binding substances on the functional and decorative properties of mycelia*"

16:15 - 16:30 hrs. (PL) / 12:15-12:30 hrs. (CL)

Prof. (PhD) Andrea Wechsler, Msc Yessenia Briones, MSc Pablo Domínguez

Faculty of Design, Universidad del Desarrollo / University of Chile

Presentation title: "*Pastes for 3D Printing and Mycelium: Development and possible Applications in Design*".

16:30 - 16:45 hrs. (PL) / 12:30-13:45 hrs. (CL)

Professor Anna Maria Wierzbicka

Warsaw University of Technology, Faculty of Architecture

Presentation title: "*Micelum Brick: An Innovative Building Material for the Future*"

DISCUSSION & SUMMARY 16:45-17:15 (PL) / 12:45-13:15 (CL)

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Zoom Meeting

<https://zoom.us/j/94127387522?pwd=0bJRPaTY0alsu8dxkL2ReShj8gvT6z.1>

Meeting ID: 941 2738 7522

Code: 053261

Scientific committee head Prof. Agata Bonenberg, Prof. Gabriel Felmer

Scientific committee

Professor (PhD) Rodrigo Morales-Vera, Professor (PhD) Andrea Wechsler, Professor Maciej Sydor, Assistant Professor (PhD) Consuelo Fritz, Assistant Professor (PhD) Gabriel Felmer, Professor Grzegorz Cofta, Assistant Professor (PhD) Agata Zdarta, Professor Jakub Zdarta, Professor Anna Maria Wierzbicka, Professor Agata Bonenberg,

Secretary of the Symposium Msc Anna Lewandowska,
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