

# OPEN DAY OF MODERN TIMBER STRUCTURES

3rd edition: Hybrid timber structures in low-carbon construction



**13.05.2025**



**Building Rektorska 4,  
Warsaw University of Technology**

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# OUR SPEAKERS



**Robert Malczyk** belongs to a rare breed of university-trained, specialized timber engineers. Following graduation with a master's degree from Warsaw Technical University, Robert set his eyes on Canada, for an opportunity to study at UBC under the world-renowned professor and practicing engineer Borg Madsen. Through his career, Robert has worked on over 600 projects, several of which have received awards, including the Art Gallery of Ontario Galleria Italia with architect Frank Gehry, one of the most complex timber structures ever built. In 2021, Robert co-founded Timber Engineering Inc. He is currently working on projects all over Canada, in the USA and in Asia. Robert's specialty is system approach to Mass Timber with emphasis on structural and energy efficiency.

"New Competitive Mass Timber Systems" (ENG)

**Piotr Brodniewicz** - Head of the Design, Research and Development Department of Andrewex Construction, structural designer and head of the design studio - creator and co-creator of more than seventy construction and execution projects, mainly of timber structures: laminated timber, cross-laminated timber and light timber frame. Among them were long-span, multi-story structures with high fire resistance, with a strong emphasis on prefabrication.

"Hybrydowe konstrukcje z drewna masywnego i paneli z lekkiego szkieletu - wyzwania konstrukcji homogenicznych i rozwiązania, jakie przynosi łączenie materiałów" (PL)



**Radek Urbanek** - application engineer at SIGA Cover AG since 2018, where he is involved in materials application, testing and building physics calculations (WUFI). From 2014 to 2018, he worked at Holzforschung Austria as a technical employee for windows, doors and material testing. In earlier years, he gained experience at Schilliger Holz AG in Switzerland (CNC programming - CLT) and at Hartl Haus Holzindustrie GmbH in Austria as a planner of prefabricated houses.

"History of the development of vapour control layers and moisture safety of timber constructions with modern vapour control layers" (ENG)

**Tomasz Noszczyk** - project engineer and business development manager at Graner + Partner Ltd. where he specializes in numerical modeling of thermal bridges, thermal-moisture analysis of partitions and complex energy modeling of buildings. Through dynamic simulations, he identifies potential risks at the design stage. At Graner + Partner, he is actively developing services in the field of building physics and acoustics analysis for the construction industry on the German and Polish markets.

"Od symulacji do rzeczywistości: Wyzwania ciepłno-wilgotnościowe i trwałość konstrukcji drewnianych. Wymagania normowe a dynamiczne symulacje komputerowe" (PL)





# OUR SPEAKERS



**Agnieszka Kaliszuk-Wietecha** - Assistant Professor at the Warsaw University of Technology, author and co-author of numerous articles, scientific publications, projects (national and international) and technical papers primarily in the field of thermal and humidity issues. Member of the Polish Association of Construction Engineers and Technicians and the Association of Energy Auditors. Author of numerous expert reports and technical opinions.

**Zuzanna Godek** - Graduate of the Faculty of Civil Engineering at Warsaw University of Technology, majoring in Construction, with a specialization in Sustainable Construction. Professionally, since 2020, she has been associated with the consulting company JWA, where she deals with, among other things, energy performance certificates and life cycle analysis of commercial buildings and the creation of environmental product declarations.

"Ślad węglowy budynku w zależności od zastosowanej konstrukcji" (PL)

**Marta Góralczyk** - A graduate of the Bydgoszcz University of Technology in the field of construction. She has been professionally connected with Andrewex Construction for more than 5 years, working in the Research and Development Design Department. She specializes in large-scale glued laminated timber structures, and recently has also been developing her expertise in modular as well as panel technology.

**Tomasz Perkowski** - Architect at Andrewex Construction, IARP member since 2006, author of many industrial and public utility projects. From 2013-2020, head of the Design Department of Unihouse branch of Unibep SA, also served as product developer. Architect leading projects of modular multi-storey buildings on the Polish and German market, author of articles on modular construction and numerous trainings, lectures and presentations on this topic.



"Hybryda w prefabrykacji Polskiej Stacji Badawczej na Antarktyce - jak urzeczywistnić wizję i ją wyprodukować" (PL)



**Salla-Mari West** has University degree in Engineering. She started in Peikko 2013 as a research and development engineer focusing mainly to DELTABEAM® Composite Beam. She has studied the behavior and design of the product and wants to keep investigating new solutions.

"Steel hybrid solution – Load bearing capacity at ambient temperature and in fire situation" (ENG)



# PARTICIPANTS IN THE DEBATE

"Od biurowca z drewna masywnego w Wielu po hybrydową stację antarktyczną - wyzwania zrównoważonego budownictwa drewnianego" (PL)



**Igor Duda** - Engineer with eight years of experience in construction of cubature objects. A graduate of the Technical University of Lodz and the Poznań School of Banking, he is a member of the Lodz District Chamber of Civil Engineers. Since 2022, he has been associated with Sylva Sp. z o.o., where, as Project Manager, he is responsible for the comprehensive management of investments. One of his key challenges at the company was to prepare the office's investment in CLT technology, ensuring its effective implementation at every stage.

**Hubert Maciejewski** - Graduate of construction at Poznan University of Technology, specializing in building and engineering structures. Designer with 15 years of experience. Since 2015, he has been associated with Demiurg Project S.A. studio, where he serves as head of the structural design department. In his role, he coordinates design work on key investments, including the comprehensive reconstruction of the technical and storage facilities of the H. Arctowski Polish Antarctic Station.



**Magda Rachuta** - works in the office of APA Wojciechowski Architekci since 1994, where she holds the position of architect. Her experience with timber-framed building projects began in 2015. She has worked on projects including: Procter & Gamble, PBK, Flekstronix, Whirlpool, Saski Crescent, Blue City, River Side, Passat, wooden office building in Gdansk, Alchemia I, Alchemia II, OMD office building, Wieliczka wooden office building, wooden office building in Wiele, Spichrzowa residential building Gdansk, Super Krak office building.

**Serafin Jerzy Szyszka** - a graduate of the Faculty of Urban Planning and Architecture at the Cracow University of Technology, with more than 20 years of experience in the construction industry, both in design and execution of projects. For more than 12 years, he has held key supervisory roles in the construction of prefabricated timber structures. His portfolio includes a wide range of completed projects, including the reconstruction of the Sunderland subway station, modular timber construction in Norway and the hybrid construction of a new research station in Antarctica. For more than two years, he has served as Director of the Contract Execution Department at Andrewex Construction.



**Arkadiusz Węglarz** - University Professor at the Faculty of Civil Engineering of the Warsaw University of Technology, Advisor to the Board of Directors on Low-Carbon Economy at the National Energy Conservation Agency S.A., Vice President of the Board of Directors of the Association of Energy Auditors. Co-author of about two hundred scientific publications, dozens of technical papers and newspaper articles on construction and energy efficiency in the economy. Author of numerous expert reports for state and local government institutions and enterprises. Awarded the Golden Cross of Merit by the President of the Republic of Poland for his achievements in the field of energy efficiency in construction.

**Piotr Brodniewicz** - Head of the Design, Research and Development Department of Andrewex Construction, structural designer and head of the design studio - creator and co-creator of more than seventy construction and execution projects, mainly timber structures: laminated timber, cross-laminated timber and light timber frame, among them long-span, multi-story, high fire resistance structures with a strong emphasis on prefabrication.

## MODERATORS