

THURSDAY, 5th OF DECEMBER

All the sessions are held in the Civil Engineering Building (CEB), WUT,
Aleja Armii Ludowej 16, room 101.

08:30-09:30

Registration, CEB, hall

CONFERENCE OPENING & GENERAL LECTURES

Chairman: Stanisław Jemioło

9:30-9:45	<i>Opening Ceremony</i> R. Tarczewski , Chair of the Scientific Committee of LSCE 2024 A. Garbacz , Dean of the Faculty of Civil Engineering, WUT
9:45-10:15 General lecture	<i>J. B. Obrębski – researcher and educator</i> R. Tarczewski
10:15-10:45 General lecture	<i>Recent research progress in the structural design of tubular steel wind turbine towers</i> C. Gantes

10:45-11:15

Coffee Break, CEB, hall

THEMATIC SESSION 1

OPTIMIZATION

Chairman: Leszek Małyszko

11:15-11:40 Invited lecture	<i>Minimum compliance design with regard to material anisotropy</i> G. Dzierżanowski
11:40-11:55	<i>On minimizing potential energy of trusses subjected to distortions</i> T. Lewiński, T. Sokół
11:55-12:10	<i>Optimum designs of planar trusses subjected to given distortions</i> T. Sokół, T. Lewiński
12:10-12:25	<i>Optimum design of steel space truss roof with arithmetic optimization algorithm</i> B. Yakak, B. Atmaca, T. Dede, M. Grzywiński
12:25-12:40	<i>Reverse structural design of minimum bending footbridges</i> M. Pelczarski, R. Tarczewski

12:40-14:00

Lunch, CEB, room 407

THEMATIC SESSION 2 **DYNAMICS & STABILITY**

Chairman: **Marcin Gajewski**

14:00-14:25 Invited lecture	<i>Analysis of the influence of the bolted interconnections spacing between the elements of a closely spaced build-up member – Case study</i> J. Szafran, K. Juszczak-Andraszyk, P. Kaszubska
14:25-14:40	<i>The influence of seismic excitations on the method of creating geodesic dome grids</i> D. Bysiec, T. Maleska
14:40-14:55	<i>Comparative analysis of earthquake and wind impact on a cooling tower</i> D. Cornik, A. Padewska-Jurczak, A. Ciścio, R. Walentyński, H. Myrcik
14:55-15:10	<i>Experimental and numerical determination of a wind force acting on an object in the shape of a bent pipe</i> A. Padewska-Jurczak, Z. Buliński, T. Krysiński, M. Wiśniowski, D. Cornik
15:10-15:25	<i>Investigation of possible causes of structural failures in large logistics warehouses due to the impact of heavy rainfall</i> R. Walentyński, K. Gryboś, K. Kozięć, M. Matyl, M. Wiśniowski

15:25-15:55	<i>Coffee Break, CEB, hall</i>
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THEMATIC SESSION 3 **CONSTITUTIVE MODELLING & FEM IMPLEMENTATION**

Chairman: **Tomasz Lewiński**

15:55-16:20	<i>Atriumroof EDGE Südkreuz - a hybrid for a hybrid</i> M. Elze
16:20-16:35	<i>Expansion of football stadiums stands – Challenges, possibilities, implementations</i> J. Szafran, C. Gorzeń
16:35-16:50	<i>Constitutive modelling and numerical implementation for fibre-reinforced materials in ABAQUS</i> A. Franus, S. Jemioło
16:50-17:05	<i>Influence of the FEM modeling assumptions on the compatibility of the obtained results with the experiment in case of bent thin-walled C-type element</i> M.D. Gajewski, A. Piotrowski, C. Ajudukiewicz, D. Trinh-Duc, S. Jemioło
17:05-17:20	<i>Full-range continuous and smooth moment-curvature relationships for aluminium alloy beams</i> A. Szwed, I. Kamińska
17:20-17:30	<i>Invitation from Opole University of Technology to the future LSCE2025 conference</i> D. Bysiec

18:30	<i>Welcome Reception, CEB, room 407</i>
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FRIDAY, 6th OF DECEMBER

THEMATIC SESSION 4 NEW MATERIALS AND TECHNOLOGIES

Chairman: **Marcin Kamiński**

9:00-9:25 Invited lecture	<i>Effectiveness of sound mitigation walls and their environmental compatibility in the built environment</i> R. Tarczewski
9:25-09:40	<i>Connection and force transmission of thin-walled façade elements made of Carbon Concrete Composite</i> M. Ayoubi
09:40-9:55	<i>A new perspective on the use of mycelium-based composites in construction</i> R. Walentyński, A. Jurkiewicz
9:55-10:10	<i>Determination of tensile strength and elasticity modulus identification for high-performance PVC-coated fabrics</i> M. Chronowski, M. Neubauer, B. Łazorczyk, M.A. Zmuda Trzebiatowski
10:10-10:25	<i>Material identification of heterogeneous Kirchhoff-Love shell strips</i> B. Łazorczyk, R. A. Sauer
10:25-10:40	<i>Identification of orthotropic material model for technical fabric in the light of PN-EN 17117-1:2019-2</i> B. Łazorczyk, M.A. Zmuda Trzebiatowski, M. Chronowski, F. Neubauer, P. Kłosowski, A. Tomaszevska
10:40-10:55	<i>Influence of shape imperfections on behaviour of hyperbolic cooling tower</i> D. Cornik, H. Myrcik, R. Walentyński, A. Padewska-Jurczak

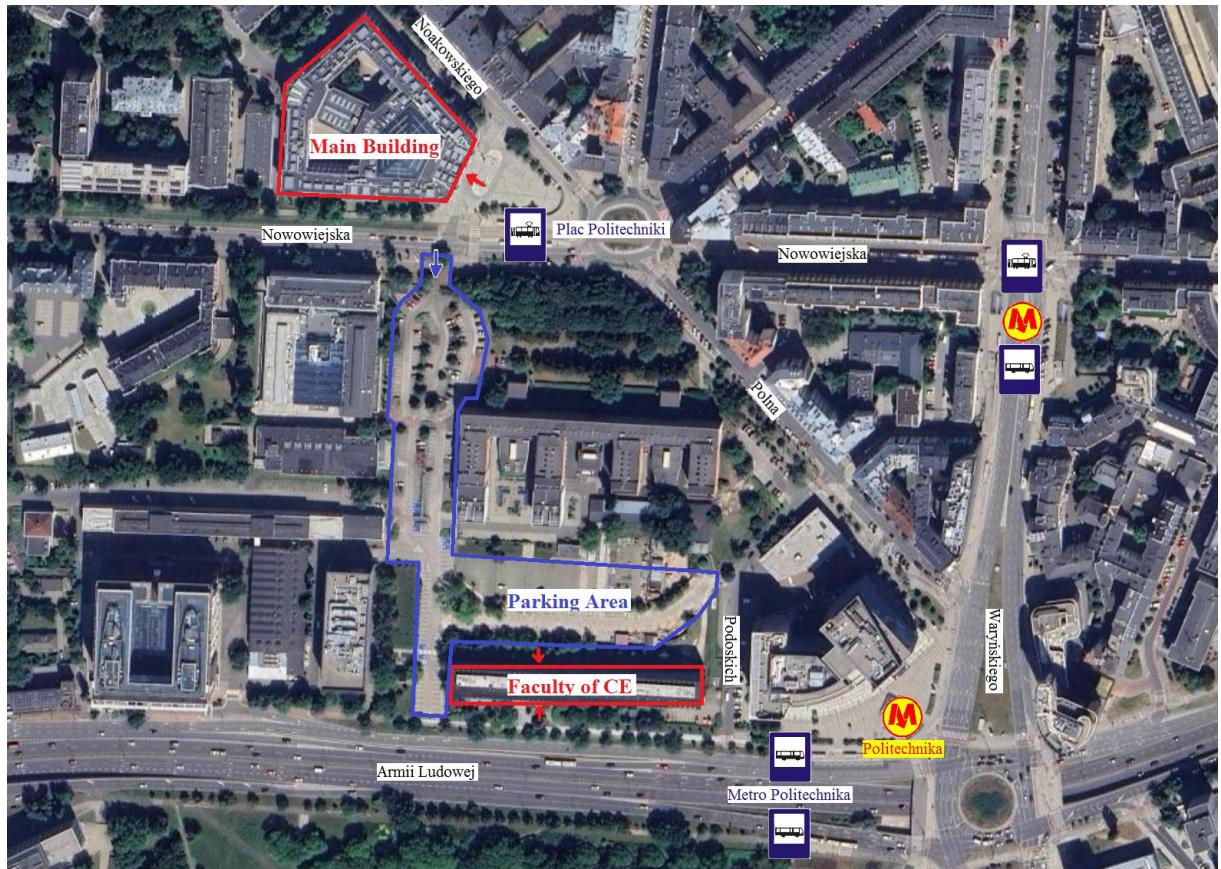
10:55-11:25	Coffee Break, CEB, hall
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THEMATIC SESSION 5 TENSEGRITY & RELIABILITY

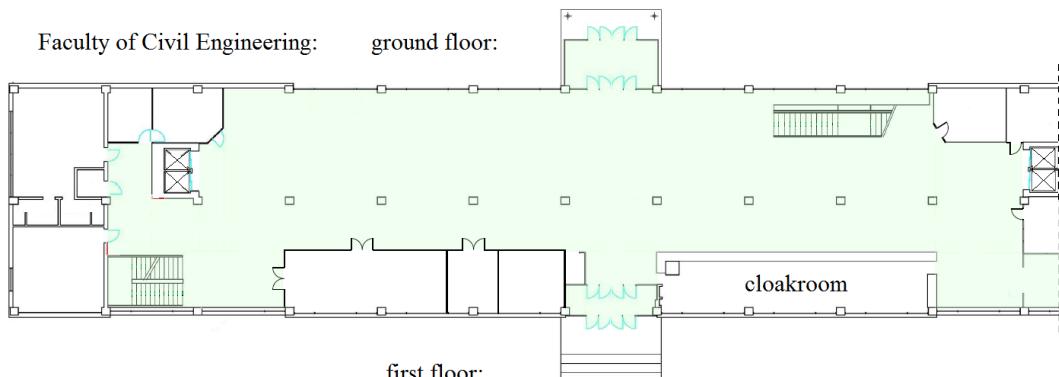
Chairman: **Ryszard Walentyński**

11:25-11:50 Invited lecture	<i>Challenges of tensegrity-like engineering structures in view of additive manufacturing</i> W. Gilewski, A. Al Sabouni-Zawadzka
11:50-12:05	<i>K-span structures – comparison of selected methods of design</i> R. Walentyński, R. Cybulski, H. Myrcik
12:05-12:20	<i>Prestressing a non-minimal triplex by changing the length of selected groups of members</i> A. Rutkiewicz
12:20-12:35	<i>On uncertainty quantification in elastic beams using stochastic Finite Difference Method and probabilistic entropy</i> M. Kamiński
12:35-12:50	<i>Reliability analysis of parallel systems of ductile and brittle components using Monte Carlo simulations</i> E. K. Szeliga
12:50-13:00	<i>Closing Ceremony</i>

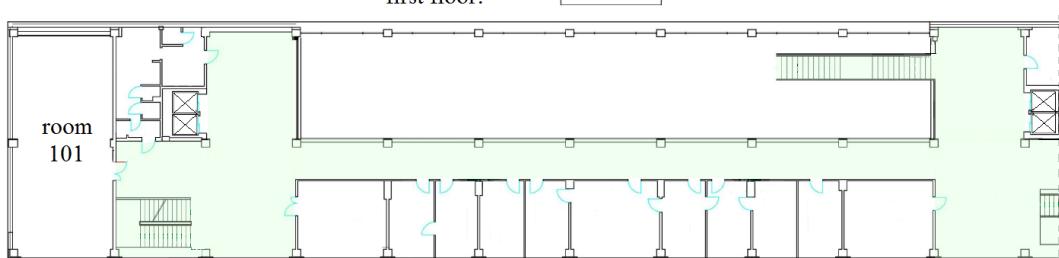
13:00-14:00	Lunch, CEB, room 407
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Faculty of Civil Engineering: ground floor:



first floor:



fourth floor:

