



Date and Time	Programme (The Conference will be held in VILNIUS TECH, Address: Saulėtekio al. 11, Vilnius, 10223 Lithuania)			
May 12, 2026 18:00-20:00	Welcome reception AULA MAGNA HALL			
May 13, 2026 08:00-09:00	Registration in the lobby with welcome coffee HALL S3 03			
09:00-09:30	Welcome word (Chairs: Gintaris Kaklauskas and Michael F. Petrou) HALL S3 03			
09:30-10:00	Opening lecture Development Directions of Civil Engineering Research and Education in the Construction Sector Remigijus Šalna			
10:00-10:30	Keynote lecture Utilization of industrial by-products for the production of sustainable building materials Maria Stefanidou			
10:30-11:00	Coffee break/Poster session			
11:00-11:30	Keynote lecture Energy geostructures: a smart exploitation of the renewable energy situated under our cities Lyesse Laloui			
11:30-12:00	Keynote lecture Implementing Novel Technologies Towards the Sustainable Management of Existing Infrastructures José António Silva Carvalho Campos Matos			
12:00-13:00	Lunch			
13:00-13:30	Keynote lecture Application of robotics for the production of precast carbon-reinforced concrete members Klaus Holschemacher			
13:30-14:00	Keynote lecture Multimodal AI systems in construction Artūras Kaklauskas			
14:00-14:30	Coffee break/Poster session			
Sections:	STRUCTURES1 HALL S1 307 Chairs: Darius Bačinskas and Klaus Holschemacher	MATERIALS1 HALL S3 03 Chairs: Jurgita Malaiškienė and Maria Stefanidou	GEOTECHNICS1 HALL S3 05 Chairs: Darius Macijauskas and Lyesse Laloui	CONSTRUCTION TECHNOLOGIES1 HALL S3 06 Chairs: Natalija Lepkova and Jonas Šaparauskas
14:30-14:50	Electromagnetic field fiber orientation for column confinement ID: 33 Polydorou, T., Fikardos, A., Nicolaidis, D., Petrou, M.	Evaluation of Water Retention Characteristics of Hot Mix Asphalt Mixtures Based on WP4C Measurements ID: 63 Pap, M., Illés, Z., Mahler, A.	Comparison of the application of different binders for stabilization of high swelling clays ID: 50 Melentijevic, S., Berardi, L., Ponce, R., López-Andrés, S.	Barriers to Reusing Concrete Elements in Construction ID: 31 Quapp, U., Tamosaitiene, J., Holschemacher, K.
14:50-15:10	Crack width prediction for bending RC members by the Pure Shear Model. ID: 4 Sakalauskas, K., Kaklauskas, G.	Resolving Steel Making in a Blast Furnace by the Extended Discrete Element Method (XDEM) ID: 10 Peters, B.	Evaluation of Consolidation Stages and the Influence of Stress Level on Organic Soils ID: 16 Lekstutytė, I., Žaržojus, G., Samalavičius, V., Martinkus, V., Grinevič, M.	AI- Driven Additive Ratio Assessment Framework for Sustainable Façade Material Selection ID: 74 Wimalasena, S., Turskis, Z., Šliogerienė, J.
15:10-15:30	Deformation capacity of TRC panels with spliced mesh at bending region ID:	Durability and Fracture Behavior of Eco-UHPM with Recycled Steel Fibers and Spent Refinery Catalyst under	Analysis of Resin Propagation and Behavior in Sand Treated with Expandable Polyurethane Resin ID:	System dynamics for the estimation of photovoltaic systems' growth and



	83 Ulzurrun, G., Jadan, A., Garcia Tocto, D., Zanuy, C.	Chloride Exposure ID: 72 Abdolpour, H., Chmurzyńska, L., Brzozowska, K., Mrosek, B., Udebunu, J., Bednarski, M.	89 Skuodis, Š., Dirgėlienė, N., Zakarka, M., Kordušas, V.	waste ID: 117 Al-Refaie, A., Lepkova, N.
15:30-15:50	Comparative Feasibility of Fused Filament Fabrication and Photo-Induced Metallization for Self-Sensing Polymeric Components ID: 121 Gribniak, V., Balan, L., Rimkus, A.	A Novel Concept of Porous Concretes and Geopolymers with Zeolitized Diatomite and Activated Granite Dust: Potential Functional Impacts and Application for Underwater Nutrient Removal in Eutrophic Lakes ID: 92 Łach, M., Przybek, A., Oliwa, K., Rusinek, E., Piątkowski, J., Korniejenko, K.	Case Study of a Mechanically Stabilized Earth Wall Bridge in the Kaunas District, Lithuania ID: 41 Šiukščius, A., Bareikis, N.	Modelling the Impact of Schedule Pressure on Risk-Taking Behaviors Among Construction Workers: An Agent Based Modelling (ABM) Approach ID: 69 Saneimoghaddam, S., Geipele, I., Kundzina, A., Zvirgzdins, J.
15:50-16:10	Coffee break/Poster session			
Sections	STRUCTURES1 HALL S1 307 Chairs: Darius Bačinskas and Klaus Holschemacher	MATERIALS1 HALL S3 03 Chairs: Jurgita Malaiškienė and Maria Stefanidou	GEOTECHNICS1 HALL S3 05 Chairs: Darius Macijauskas and Lyesse Laloui	CONSTRUCTION TECHNOLOGIES1 HALL S3 06 Chairs: Natalija Lepkova and Jonas Šaparauskas
16:10-16:30	Thermal Crack Control by Cooling Pipe System ID: 57 Macho, M., Šmilauer, V.	Experimentations on Recycled Concrete and Waste Glass Powder as Sustainable Cement Substitutes in Eco-Friendly Mortar ID: 98 CHIKER, T., Belkadi, A., Berkouche, A., El Haddaji, B., Aggoun, S.	Geosynthetic-Reinforced Structures for Geohazard Protection: Concepts and Case Studies ID: 115 Poberezhnyi, V., Jaramillo, J., Bjerkeli, L., Overgård, I., Nybø, I.	Tools Supporting Environmental Impact Assessment in Building Developments ID: 114 Szafranko, E., Harasymiuk, J., Jurczak, M.
16:30-16:50	Lateral-Torsional Buckling Capacity of I-Beams with Large Web Openings: A Comparative Study ID: 123 Siriwardane, S., Pavlou, D.	Multiphysics Modelling of Electric-Current-Assisted Sintering ID: 5 Rojek, J., Nisar, F., Nosewicz, S., Chmielewski, M., Kaszyca, K.	Analytical Method for Immediate Settlement of Shallow Foundations on Layered Ground ID: 18 Dehghanian, K., Hsino, M.	Optimization of a Modular Construction Factory Workflow using a Genetic Algorithm ID: 65 Njuguna, M., Parente, M., Granja, J., Azenha, M.
16:50-17:10	Fire Resistance and Thermomechanical Behavior of Fiber-Reinforced Polymer Structures ID: 49 Hanif, A., Kachach, W.	Thermal Performance and Heat Transfer Modeling of Lightweight Cement Composites with Expanded Glass Granules ID: 59 Mačiūnas, D., Kačianauskas, R., Boris, R., Borodinas, S., Antonovič, V., Stonys, R., Skuodis, Š.	Influence of Glacigenic Deposit Formation Conditions on Soil Compactibility Parameters ID: 67 Macans, J., Krievans, M., Pundure, L., Vincevica-Gaile, Z., Krauklis, A., Jani, Y., Vilnitis, M., Burlakovs, J., Makindi, S.	Evaluation of BIM use in re-construction project: Case study of the Wroblewski Library in Vilnius ID: 44 Migilinskas, D., Antuchevičienė, J., Zigmund, V., Končė, B.
17:10-17:30	Nuclear concrete testing: Testing of the concrete exposed to the neutron flux ID: 6 Hlavac, Z., Zatloukalova, J., Soltes, J.	The replacement of Portland cement with wood biomass ash in cement mortars ID: 42 Lescinskis, O., Lazdans, E., Sahmenko, G., Bumanis, G., Bajare, D.	An Overview of Landslides on Gediminas Hill from 2016 to 2024 ID: 79 Skuodis, Š., Daugevičius, M., Šneideris, A., Jokūbaitis, A., Blaževičius, G., Valivonis, J.	The influence of construction technology factors on the energy efficiency of a building ID: 35 Kondratenko, A., Šaparauskas, J.



17:30-19:00	Free time (travelling to Gala Dinner)			
19:00-23:00	Gala Dinner			
May 14, 2026 08:30-09:00	Registration in the lobby with welcome coffee			
Sections:	STRUCTURES2 HALL S1 307 Chairs: Arvydas Rimkus and Vít Šmilauer	MATERIALS2 HALL S3 03 Chairs: Viktor Gribniak and Diana Bajare	GEOTECHNICS2 HALL S3 05 Chairs: Šarūnas Skuodis and Zsombor Illés	CONSTRUCTION TECHNOLOGIES2 HALL S3 06 Chairs: Tatjana Vilutienė and Martins Vilnitis
09:00-09:20	A Review of Testing Methods and Design Considerations for Impact-Resistant Multilayered Composites ID: 104 Dabrila, P., Rimkus, A.	Growth Requirements of Fungi in Mycelium-Based Composites for Sustainable Materials ID: 3 Sağlam, S., Köse, C., Acun Özgünler, S.	Case study of corrugated soil-steel detention tanks in Rail Baltica railway drainage system in Estonia ID: 80 Bareikis, N., Gedvilas, Š.	Integrating Circular Economy into Green Supplier Selection: An AHP-based Study in Construction ID: 88 Wimalasena, S., Zvirgzdins, J.
09:20-09:40	Environmental degradation of intumescent fire protection coatings on steel structures: implications for long-term safety and performance ID: 110 Grigonis, M., Nagrockienė, D., Griškevičius, M., Kolesnikov, D.	Biodegradation of bioplastics by fungus <i>Penicillium radiatolobatum</i> isolated from the greenhouse soil ID: 22 Biyada, S., Boris, R., Urbonavičius, J.	A Comparative Review of Methods for Estimating the Axial Bearing Capacity of Pile ID: 32 Dwivedi, R., Sližytė, D., Skuodis, Š.	Impacts of AI Applications Across Building Life Cycle ID: 99 Vievisis, M., Vilutienė, T.
09:40-10:00	A new comprehensive construction system consisting of timber-concrete composite elements ID: 90 Otero-Chans, D., Martín-Gutiérrez, E., Suárez-Riestra, F., Vázquez-Rodríguez, J.	Hybrid Diatomite-Wood Fiber Foamed Geopolymers as Sorptive, Habitat-Forming Materials for Lake Rehabilitation - Preliminary Concept ID: 97 Gądek, S., Przybek, A., Oliwa, K., Rusinek, E., Piątkowski, J., Setlak, K., Korniejenko, K., Łach, M.	The Combined Pile-Raft Foundation to optimize bridge foundations ID: 66 Leppla, S., Paninski, J., Scholz, M., Norkus, A.	Integrating Building Information Modeling (BIM) into Facility Management Workflows: A Conceptual Framework for Improving Building Lifecycle Efficiency ID: 100 Springis, M., Lapuke, S., Zvirgzdins, J.
10:00-10:20	Ballistic Strengthening of Timber-Framed Building Walls ID: 91 Barone, E., Hamenoks, D.	Influence of Biomass Bottom Ash on Concrete Physical, Mechanical Properties and Microstructure ID: 47 Vaičienė, M., Malaiškienė, J., Korjakins, A.	Convexity Analysis and Predictive Evaluation of the Fredlund, Gardner, and van Genuchten Models for Soil-Water Retention Behavior under Unsaturated Conditions ID: 15 Mwinken, D.	Integration of Fire Safety Requirements in BIM-Based Design: Lithuanian Case ID: 101 Šukys, R., Kiaulakis, A., Vilutienė, T., Šarkienė, E., Šarka, V.



10:20-10:50	Coffee break/Poster session			
Sections:	STRUCTURES2 HALL S1 307 Chairs: Arvydas Rimkus and Vít Šmilauer	MATERIALS2 HALL S3 03 Chairs: Viktor Gribniak and Diana Bajare	GEOTECHNICS2 HALL S3 05 Chairs: Šarūnas Skuodis and Zsombor Illés	CONSTRUCTION TECHNOLOGIES2 HALL S3 06 Chairs: Tatjana Vilutienė and Martins Vilnitis
10:50-11:10	A dynamic bridge girder response subjected to vibrations of the moving vehicle suspension ID: 86 Balevičius, R., Augonis, M.	Microstructural Characterization of Carbonated Ordinary Portland Cement under Varied CO ₂ Pressures ID: 27 Shafique, M., Siddique, S., Khalid, H., Hanif, A.	Early-Age Strength Development of CO ₂ -Cured Cementitious Composites Incorporating Red Mud ID: 40 Inayathulla, M., Ahmad, S., Hanif, A.	The Analysis of the Challengers of Environmental Product Declarations (EPD) in Enhancing the Sustainability ID: 95 Tamosaitiene, J., Lenkevičius, E.
11:10-11:30	Experimental and analytical study of different timber-concrete connections ID: 20 Briuka, E.	Eco-Friendly Fiber Reinforcement: Cellulose Impact on Concrete Performance and Shrinkage ID: 48 Vaičekauskienė, V., Nagrockienė, D., Pocius, E., Girnienė, I.	Pozzolanic Activity of Thermally Processed Czech Clays for Sustainable Concrete ID: 82 Sotiriadis, K., Náhunková, P., Pticen, F., Slížková, Z., Vavro, M., Reiterman, P.	Interest in DEMATEL in the construction industry – a short essay ID: 70 Ginda, G., Vigneshkumar, C.
11:30-11:50	Influence of Specimen Size on Shrinkage Prediction Using Short-Term Data ID: 71 Dohnalová, L., Šmilauer, V., Havlásek, P.	Influence of Calcium Carbonate on the Kinetic Aspect of Cement-Asbestos Material Thermal Decomposition Process ID: 30 Kusiorowski, R., Gerle, A., Kujawa, M.	Design and carbon footprint calculation of an excavation retaining system:: CO ₂ footprint and recycled materials in geotechnics ID: 124 Gyürky, K., Illés, Z., Nagy, G.	AI-Driven Simulation Modeling for Optimizing Circular Material Flow in Modular Construction ID: 75 Weerakoon, T., Turskis, Z., Šliogerienė, J.
11:50-12:10	Deflection analysis of layered reinforced concrete elements with lattice girder ID: 106 Gedminas, J.	Acoustic Performance of Grape Stem Composites as Sustainable Sound Absorbers: ISO 10534-2 and Airflow Resistivity Evaluation ID: 14 Siregar, H.	Strength Development of Shotcrete under Compressed Air Work Conditions ID: 122 Ng, P., Yeung, A., Skuodis, Š.	Integrating Multi-Criteria Decision-Making and Internet of Things for Sustainable Construction: Conceptual Framework ID: 77 Wimalasena, S., Turskis, Z., Šliogerienė, J.
12:10-13:10	Lunch			
Sections:	STRUCTURES3 HALL S1 307 Chairs: Linas Juknevičius and Zdenek Kala	MATERIALS3 HALL S3 03 Chairs: Valentin Antonovič and Robert Kusiorowski	MATERIALS4 HALL S3 05 Chairs: Ina Pundienė and Aleksandrs Korjamins	CONSTRUCTION TECHNOLOGIES3 HALL S3 06 Chairs: Zenonas Turskis and Audrius Banaitis
13:10-13:30	A Synergistic Approach to Thermally Stable and Self-Healing Concrete via Microencapsulated PCMs and Bio-Agents: Integrating Thermal Stability and Crack Repair ID: 113 Kaklauskas, G., Ali, S.	Influence of solar panel glass waste on the properties of cement-based binder ID: 8 Malaiškienė, J., Bekerė, K.	Impact of plant oils on the performance of biopolymer-based coatings for wood and wood composites ID: 54 Levina, A., Kairyte, A., Balčiūnas, G., Vėjelis, S., Vaitkus, S., Kremensas, A., Šeputytė-Jucikė, J.	Sustainable flood management decisions: comparing traditional and AI-based multi-criteria evaluations ID: 36 Piaseckienė, G., Antuchevičienė, J.



13:30-13:50	Application of FRC in Pre-cast Concrete Elements Industry (L-Shape Elements) ID: 25 Karpauskas, A., Soltanieh, A., Smet, J., Ronsee, W., De Meyer, M., Henningsen, D.	Usage of Biomass Ash in Alkali-Activated Mortar ID: 21 Du, Y., Pundiene, I., Pranckeviciene, J., Salna, R.	Recent Advances in Alkali-Activated Composites for Construction: A path to a circular built economy ID: 17 Mohamed, S., Hanif, A.	Assessing BIM maturity of construction projects ID: 43 Migilinskas, D., Vilutienė, T., Popov, V.
13:50-14:10	Assessment and Numerical Analysis of Runway Beam Connection ID: 61 Šaučiuvėnas, G., Mudrov, A.	Review of research on the use of wood-waste particles in wood-plastic composites ID: 58 Rimkienė, A., Vėjelis, S.	Acoustic Performance of Grape Stem Composites as Sustainable Sound Absorbers: ISO 10534-2 and Airflow Resistivity Evaluation ID: 14 Siregar, H.	Analysis of the Causes of Building Defects ID: 85 Bagdonavičienė, E., Lepkova, N., Sližytė, D., Kalibatas, D., Al-Refaie, A.
14:10-14:30	Experimental Framework for Sustainability-Oriented Concrete Durability Evaluation ID: 109 Krauze, B., Lifshitz Sherzer, G.	Thermo-mechanical model for white-topping pavement ID: 45 Veselý, J., Šmilauer, V.	Possibilities of using galvanic sludge in the production of building products ID: 34 Daščioraitė, I., Kizinievič, O., Kizinievič, V., Trambitski, Y., Voišnienė, V.	Towards Next-Generation Facilities Management: Leveraging Digital Technologies in Building Inspections ID: 46 Brigmanas, M., Vilutienė, T.
14:30-15:00	Coffee break/Poster session			
Sections:	STRUCTURES3 HALL S1 307 Chairs: Linas Juknevičius and Zdenek Kala	MATERIALS3 HALL S3 03 Chairs: Valentin Antonovič and Robert Kusiorowski	MATERIALS4 HALL S3 05 Chairs: Ina Pundienė and Aleksandrs Korjamins	CONSTRUCTION TECHNOLOGIES3 HALL S3 06 Chairs: Zenonas Turskis and Audrius Banaitis
15:00-15:20	Brewery Malt-Drying Domes with Integrated Chimneys ID: 120 Šneideris, A., Zavalis, R., Juknevičius, L.	The Influence of Phosphogypsum Waste Additive on the Early Age Properties of Cement Pastes ID: 29 Du, Y., Rudelis, V., Kligys, M., Girskas, G.	Steam-Cured High Early-Strength Cementitious Composites Containing Silicomanganese Fume and Sulfate-Resistant Cement ID: 39 Rashid, S., Siddique, S., Khalid, H., Hanif, A.	3D Scanning and BIM Applications for Construction Quality Control and Process Optimization: Systematic Literature Review ID: 62 Tamosaitienė, J., Matuzevicius, E.
15:20-15:40	Textile Architecture and Structural Innovation: The Case of Kevlar as a High-Performance Construction Material ID: 56 CHEIRCHANTERI, G., Tzortzi, S.	Corrugated products toward the greatest possibilities ID: 73 Drozd, A., Vėjelis, S.	Recent developments in CO ₂ sequestration in cementitious composites ID: 51 Hanief, I., Rashid, S., Ansari, K., Hanif, A.	A Fuzzy AHP-EDAS Decision Framework for Selecting Energy-Efficient Data Center Architectures in Tropical Climates ID: 78 Senaratna, K., Šliogerienė, J., Weerakoon, T.
15:40-16:00	Variance based sensitivity analysis of a vertically loaded single story steel frame structure ID: 23 Jindra, D., Kala, Z., Kala, J.	Experimental Investigation of the Influence of Various Mineral Oils on the Strength and Mass of Concrete Specimen ID: 52 Volkova, V., Yermakov, O.		



16:00-16:10	Conference closing			
May 13, 2026 14:00-14:30 15:50-16:10 May 14, 2026 10:20-10:50 14:30-15:00	Posters (Coffee break area)			
	Numerical Modeling of the Dynamic Behavior of a Multi-Story Building With Internal and External Stiffening Cores ID: 37 Kovrova, V., Volkova, V.	Dynamic Behaviour of GFRP Footbridge Model ID: 102 Bacinskas, D., Rumsys, D., Rimkus, A., Kilikevicius, A.	Critical Temperature Evaluation for Steel Column with Initial Bow Imperfection when Exposed to Fire ID: 68 Maslak, M., Pazdanowski, M., Kuras, P.	Curvature Prediction for High-Strength Steel RC Beams by Different Methods ID: 96 Ahmed, A., Kaklauskas, G., Sokolov, A.
	Developing Innovative Education in Sustainable Timber Construction ID: 38 Tupenaite, L., Kanapeckiene, L., Lellep, K., Naimaviciene, J., Gečys, T., Norvaisiene, R., Majano-Majano, A., Lara-Bocanegra, A., Giongo, I., Bartolotti, A., Gaspari, A.	Sustainable gypsum-cement-pozzolanic compositions for 3D printing ID: 7 Sahmenko, G., Bumanis, G., Sinka, M., Argalis, P., Bajare, D.	Application of FEM modeling in the refractory materials industry ID: 68 ID: 68; Kusiorowski, R., Pawłowski, B., Kujawa, M., Kasprzyk, A., Śliwa, A., Witek, J.	Mechanical Properties and Hydration of Rapid-Setting Binders Based on Aluminous Cements ID: 108 Pyzalski, M., Juszczak, M., Ustinovicius, L., Sala, D.
	Analysing Schedule Delay Causes in Complex and Heavy Construction Projects in Saudi Arabia ID: 111 Fatima, N., Algarni, K., Ghaitan, A.	Mechanisms and Performance of Autogenous Healing in Ultra-High-Performance Cementitious Systems ID: 112 Iqbal, T., Ahmad, S., Inayathulla, M.	Strategies for Mitigating Alkali-Silica Reaction in Cementitious Materials Incorporating Waste Glass: A Critical Review ID: 107 El-hajjy, N., Tee, K., Ahmad, S., Bahraq, A.	Analysis of the influence of selected composite reinforcement types on the load-bearing capacity in bending elements ID: 103 Grabiec-Mizera, T.
May 15, 2026 10:45-12:00	<u>Cultural tour</u>			