



The Fifth European and Mediterranean Structural Engineering and Construction Conference
 “Developing Materials and Structures for Sustainable Engineering”



EURO MED SEC 5 Detailed Technical Program

Monday – May 13, 2024		
16:00 - 19:00 17:00 - 19:00	Registration Icebreaker & Welcome Reception	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius
Tuesday – May 14, 2024		
Registration		
08:00 - 16:00	Registration (on-site)	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius
Conference Opening		
09:00 - 09:45	Welcome message from VilniusTech and Introductions (20 min) <i>Prof. Dalius Navakas, Vice Rector VilniusTech</i>	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUVSQTO9 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm
	Welcome from ISEC Society (10 min) <i>Prof. Amarjit Singh, ISEC Society President</i>	
	Welcome from EURO MED SEC Chapter (5 min) <i>Prof. Klaus Holschemacher, EURO MED SEC Chapter President</i>	
	Announcements (10 min) <i>Prof. Gintaris Kaklauskas, Conference Chair</i>	
09:45 - 10:15	Keynote Speaker I: Tadas Jonauskis, Counselor, Vilnius City Municipality <i>Title: Vilnius Now and Tomorrow</i>	
Coffee Break 10:15 – 11:00		



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Tuesday, May 14, 2024, 11:00 – 12:30

Technical Session I

	Track A	Track B
	<p>I-A: Fiber Reinforced Concrete / Textile Reinforced Concrete Room: Hall 1 Moderators: YURI RIBAKOV / ARVYDAS RIMKUS IT Staff: Edmundas Kapusta V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm</p>	<p>I-B: Geotechnical and Water Engineering Room: Hall 2 Moderators: PRABIR SARKER / VIKTOR GRIBNIAK IT Staff: Domantas Liubartas V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, BREAKOUT Rm 1</p>
1	<p>STR-22: A SIMPLE APPROACH FOR PREDICTING CURVATURE IN CONCRETE MEMBERS REINFORCED WITH STEEL FIBERS AND BARS GINTARIS KAKLAUSKAS, ALEKSANDR SOKOLOV</p>	<p>GFE-01: COMPARISON OF SOIL DEFORMATION PARAMETERS DETERMINED BY OEDOMETER AND TRIAXIAL TESTS MINDAUGAS ZAKARKA, NERINGA DIRGĖLIENĖ, ŠARŪNAS SKUODIS, MICHAIL FIODOROV</p>
2	<p>MAT-04: RECYCLING METHODS FOR STEEL FIBER REINFORCED CONCRETE STEFAN KAESEBERG, ELISABETH SCHMIDT, KLAUS HOLSCHMACHER</p>	<p>GFE-07 INTERACTION BETWEEN GEOGRID REINFORCEMENT AND STONE AGGREGATES MIXED WITH TIRE DERIVED AGGREGATES UPENDRA MODALAVALASA, RAMANATHAN AYOTHIRAMAN</p>
3	<p>STR-27: WRAPPING PROCESS FOR BUILDING COMPONENTS MADE OF GLASSFIBER- AND TEXTILE-REINFORCED CONCRETE FABIAN KUFNER, PETRA RUCKER-GRAMM, MICHAEL HORSTMANN</p>	<p>AAW-01: INNOVATIVE TECHNOLOGICAL SOLUTIONS FOR REMOVAL OF PHARMACEUTICAL CONTAMINANTS FROM WATER SOURCES IRINA MEGHEA, MIHAI LESNIC, ANA-MARIA MANEA-SAGHIN -online-</p>
4	<p>MAT-07: LOAD-BEARING BEHAVIOR OF SHORT-FIBER-REINFORCED TEXTILE CONCRETE FOR A WRAPPING PROCESS FABIAN KUFNER, PETRA RUCKER-GRAMM, MICHAEL HORSTMANN</p>	<p>AAW-02: DESIGN SOLUTIONS FOR REHABILITATION OF A WATER TREATMENT PLANT IRINA MEGHEA, MIHAI LESNIC, ANA-MARIA MANEA-SAGHIN -online-</p>
5	<p>MAT-01. EFFECT OF DUNE SAND AND FLY ASH ON THE MICROSTRUCTURE OF FIBER REINFORCED CONCRETE HUSSEIN HAMADA, FARID ABED -online-</p>	<p>GFE-02: LESSONS LEARNT FROM SOIL IMPROVEMENT CASE STUDIES SYED FAIZ AHMAD -online-</p>
6		
Lunch Break 12:30 – 13:30		



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Tuesday, May 14, 2024, 13:30 – 15:00

Technical Session II

Track A		Track B	
<p>II-A: Materials Room: Hall 1 Moderators: YURI RIBAKOV / ŠARŪNAS SKUODIS IT Staff: Edmundas Kapusta V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm</p>		<p>II-B: Legal Affairs / Construction I Room: Hall 2 Moderators: AMARJIT SINGH / NERINGA DIRGÉLIENĖ IT Staff: Domantas Liubartas V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, BREAKOUT Rm 1</p>	
1	<p>CGC-08: PACKING ORDER THEORY FOR ULTRA-HIGH PERFORMANCE CONCRETE MIX DESIGN: A CRITICAL REVIEW AMIN KAMAL AKHNOUKH, MOHAMED DIAB</p>		<p>PRO-01: DECISION SUPPORT MODEL FOR SELECTING PROJECT DELIVERY METHODS IN SUSTAINABLE CONSTRUCTION PROJECTS SALMA AHMED, SAMEH EL-SAYEGH</p>
2	<p>AAE-03: EXPLORING COMPOSITE LAMINATED BAMBOO LUMBER TO SUBSTITUTE DIMENSIONAL LUMBER SUPREDEE RITTIRONK</p>		<p>EPE-05: COURT EXPERTS' CONTRIBUTION TO AN EFFICIENT DISPUTE RESOLUTION PAOLA PROVENZANO, ULRIKE QUAPP</p>
3	<p>AAE-06: MECHANICAL PROPERTIES OF LAMINATED BAMBOO LUMBER MADE OF TROPICAL SPECIES SUPREDEE RITTIRONK</p>		<p>SUS-05: EUROPEAN CLIMATE PROTECTION STRATEGY UNDER CONSIDERATION OF BUILT HERITAGE PRESERVATION ULRIKE QUAPP, KLAUS HOLSCHMACHER</p>
4	<p>SUS-01: EVALUATING THE PLA AGING EFFECTS ON THE MECHANICAL PERFORMANCE OF 3D-PRINTED COMPONENTS ARVYDAS RIMKUS, REMIGIJUS ŠALNA, VIKTOR GRIBNIAK</p>		<p>LDR-01: CIVIL LITIGATION AND DISPUTE RESOLUTION DURING URBAN TUNNEL CONSTRUCTION CAUSED BY PROPRIETY DAMAGE PAOLA PROVENZANO, GIUSEPPE IDDAS</p>
5	<p>CGC-02: IMPACT OF ALUMINOSILICATE WASTES ON THE HYDRATION, PHYSICAL AND MECHANICAL PROPERTIES OF CEMENT PASTE VALENTIN ANTONOVIČ, DONATAS SIKARSKAS, RENATA BORIS, JURGITA MALAIŠKIENĖ, RIMVYDAS STONYS</p>		<p>CON-14: FACTORS AFFECTING COMPETITIVENESS IN THE CONSTRUCTION INDUSTRY: A SYSTEMATIC LITERATURE REVIEW ANAS AZZAM AL-KAYED, FUNMILAYO EBUN ROTIMI, MAHESH BABU PURUSHOTHAMAN, ALI GHAFARIAN HOSEINI -online-</p>
6	<p>CGC-09: HIGH TEMPERATURE HEAT RESISTANCE OF CONCRETE CONFINED WITH CFRP USING FIBRE REINFORCED GEOPOLYMER BONDING AGENT AHMAD MIRZAD, SUDIPTA SARKER, PRABIR KUMAR SARKER</p>		<p>SUS-06: NUMERICAL MODELLING OF STRUCTURAL BAMBOO UNDER COMPRESSION ZAINAB RASHID, GOKULNATH CHINNASAMY -online-</p>
<p>Coffee Break 15:00 – 15:30</p>			



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Tuesday, May 14, 2024, 15:30 – 17:00

Technical Session III

	Track A	Track B
	<p>III-A: Reinforced Concrete Room: Hall 1 Moderators: PAOLA PROVENZANO / GINTARIS KAKLAUSKAS IT Staff: Edmundas Kapusta V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm</p>	<p>III-B: Infrastructure and Energy Room: Hall 2 Moderators: SUPREDEE RITTIRONK / VIKTOR GRIBNIAK IT Staff: Domantas Liubartas V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, BREAKOUT Rm 1</p>
1	<p>STR-14: THE STRUCTURAL BEHAVIOR OF RECYCLED AGGREGATE CONCRETE WALLS UNDER FIRE EXPOSURE: A FINITE ELEMENT ANALYSIS MAHA ASSAD, RAMI HAWILEH, GHADA KARAKI, JAMAL ABDALLA</p>	<p>ENR-01: EXPLORING MICROGRIDS AS A PROMISING SOLUTION FOR EQUITABLE ELECTRICITY ACCESSIBILITY NIUSHA TALEBPOUR, MOHAMMAD ILBEIGI</p>
2	<p>STR-06: FIRE RESPONSE OF CIRCULAR RC COLUMNS STRENGTHENED WITH PBO FRCM FARID ABED, SALEM KHALAF, AHMED EL REFAI</p>	<p>AAE-04: DIGITAL TWIN COLLABORATION: A COMMON TECHNICAL STRUCTURE FOR THE AUTOMOTIVE AND THE BUILDING INDUSTRY LUISA BRAUN, JENNIFER MOCK, LOUISA JUNG, PETER BÖTTCHER, FRANK SCHOLZEN</p>
3	<p>CON-08: OVERVIEW OF STUDIES ON EXTERNAL CONFINEMENT OF R/C COLUMNS USING UNIAXIAL GEOGRID RUBA BASHIR, BILAL HAMAD</p>	<p>RAD-03: A MOBILE-BASED LOCALIZATION SYSTEM FOR INFRASTRUCTURE-INDEPENDENT EMERGENCY COMMUNICATION HOJAT BEHROOZ, MOHAMMAD ILBEIGI</p>
4	<p>CAC-02: STRAIN MEASUREMENT AND ADHESIVE SELECTION FOR STRAIN GAUGES ON CARBON ROVING IN TEXTILE-REINFORCED CONCRETE STRUCTURES WLADISLAW POLIENKO, BIRUK HAILU TEKLE, KLAUS HOLSCHMACHER</p>	<p>ENR-02: MARITIME DEPLOYMENT PLANNING AND EXECUTION FOR FIELD TESTING OF OCEAN CURRENT POWER GENERATOR CHUANU-TSUNG LEE, YANG-YIH CHEN, CHUNG-PAN LEE, SHIAHN-WERN SHYUE, TSUNG-LUNG LIU-HUANG</p>
5	<p>STR-01: THE FLEXURAL CAPACITY OF COMPOSITE BEAMS WITH EXTERNAL AND SIDE-MOUNTED PLATES CARL PIETER BRUWER</p>	<p>INF-01: UNDERGROUND POWER LINES: ANALYSIS OF ENVIRONMENTAL, VISUAL, ECONOMIC, AND SAFETY BENEFITS KEVIN CORIZZI, AMARJIT SINGH -online-</p>
6	<p>STR-18: FATIGUE BOND LIFE OF REINFORCED CONCRETE BEAMS WITH LOW REINFORCEMENT CORROSION HALEEMA LAMEEZ THAJUDEEN, MADHU M KARTHIK -online-</p>	



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Wednesday – May 15, 2024

08:30 - 14:00	Registration (on-site)	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius
9:00 – 09:30	Keynote Speaker II: Lina Bubulyte, Project Manager (international relations), VšĮ „Atnaujinkime miestą“ Title: <i>Renovating not only restores the building, but recreates the story of the house and the neighbourhood. Introduction to a public institution – „Atnaujinkime miestą“.</i>	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWVVOcUjVSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm





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Wednesday – May 15, 2024, 09:30 – 11:00

Technical Session IV

	Track A	Track B
	<p>IV-A: Cementitious Materials Room: Hall 1 Moderators: PHILIPPE VAN BOGAERT / VALENTIN ANTONOVIČ IT Staff: Edmundas Kapusta V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm</p>	<p>IV-B: Construction II Room: Hall 2 Moderators: PRABIR SARKER / ARVYDAS RIMKUS IT Staff: Domantas Liubartas V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdElQMWV0cUVSQT09 PMI: 336 508 2496, Passcode: 395011, BREAKOUT Rm 1</p>
1	<p>MAT-06: OPTIMIZING FINE AGGREGATE AND CEMENT REPLACEMENT WITH STONE DUST: IMPACT ON CONCRETE COMPRESSIVE STRENGTH NASER KABASHI, ENES KRASNIQI, MILOT MUHAXHERI</p>	<p>HOS-01: INDUSTRY PERSPECTIVE ON THE TRANSITION TO ECO-FRIENDLY SINGLE-FAMILY HOMES PAYAM BAKHSHI, AFSHIN POURMOKHTARIAN, JOHN CRIBBS</p>
2	<p>AAC-08: CARBON FOOTPRINT REDUCTION USING GEOPOLYMER CONCRETE AMIN AKHNOUKH, MONOWER SADIQUE</p>	<p>SUS-03: COMPARATIVE EVALUATION OF LEED CERTIFIED HOSPITALS WITH “YES-TR” IN THE SCOPE OF “GREEN CERTIFICATION” RECEP AHMED BÜYÜKÇINAR, RÜVEYDA KÖMÜRLÜ</p>
3	<p>CGC-03: IMPACT OF FREEZE-THAW CYCLES ON BACTERIAL VIABILITY IN CONCRETE RONALDAS JAKUBOVSKIS, AUGUSTA IVAŠKĖ, SIMONA GUOBUŽAITĖ, JURGITA MALAIŠKIENĖ</p>	<p>SUS-04: COMPARATIVE EVALUATION OF “LEED” CERTIFIED SCHOOLS WITH “YES-TR” IN THE CONTEXT OF “GREEN CERTIFICATION” IZEL AKYEL, RÜVEYDA KÖMÜRLÜ</p>
4	<p>CGC-04: DEVELOPMENT OF A SELF-LEVELING FLY ASH-SLAG GEOPOLYMER MORTAR JOUD HWALLA, EVEN TEKLE, HILAL EL-HASSAN, JOSEPH ASSAAD, TAMER EL-MAADDAWY -online-</p>	<p>LDR-04: EARLY DETECTION AND SETTLEMENT OF TRADE STACKING PRODUCTIVITY CLAIMS JEFFERY L. OTTESEN, GIOVANNI MIGLIACCIO -online-</p>
5	<p>CGC-05: EVALUATION OF EARLY-AGE COMPRESSIVE STRENGTH OF GEOPOLYMER CONCRETE MASONRY UNITS ELEN ABUOWDA, HILAL EL-HASSAN, TAMER EL-MAADDAWY -online-</p>	<p>AAE-11: UNDERLYING AND RANKING FACTORS CONTRIBUTING TO CONSTRUCTION WASTE GENERATION IN THE CONSTRUCTION INDUSTRY YUSUF BERKAY METINAL, GÜLDEN GÜMÜSBURUN AYALP -online-</p>
6	<p>CGC-06: MECHANICAL AND HYDRAULIC PERFORMANCE OF PERVIOUS RECYCLED AGGREGATE GEOPOLYMER CONCRETE FAIZ HABIB ANWAR, HILAL EL-HASSAN, MOHAMED HAMOUDA, ABDULKADER EL-MIR, MO KIM HUNG -online-</p>	<p>SUS-08: DESIGNING FOR SUSTAINABILITY: A CASE STUDY OF A SHOPPING MALL ANALYZING THE LIFE CYCLE IMPACT OF STRUCTURAL DESIGNS AND MATERIALS MARYAM ELGZEARY, HAZEM GOUDA, KAMAL JAAFAR, UMAR ASGHAR -online-</p>

Coffee Break 11:00 – 11:30



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Wednesday – May 15, 2024, 11:30 – 13:00

Technical Session V

	Track A	Track B
	<p>V-A: Structures Room: Hall 1 Moderators: NASER KABASHI / ARVYDAS RIMKUS IT Staff: Edmundas Kapusta V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUVSQ09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm</p>	<p>V-B: Construction III Room: Hall 2 Moderators: RŪVEYDA KŪMŪRLŪ / JURGITA MALAIŠKIENĖ IT Staff: Domantas Liubartas V-Room A Zoom link: https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWV0cUVSQ09 PMI: 336 508 2496, Passcode: 395011, BREAKOUT Rm 1</p>
1	<p>STR-03: DEFORMATION OF END CROSSBEAMS OF STEEL BRIDGES RELATED TO SUSTAINABILITY OF BRIDGE JOINTS PHILIPPE VAN BOGAERT</p>	<p>CON-11: AGILE TEAM COMMUNICATION IN CONSTRUCTION PROJECTS: A SURVEY-BASED APPROACH HANDAN KUNKCU, KERIM KOC, ASLI PELIN GÜRGÜN -online-</p>
2	<p>STR-04: ALTERNATIVE LOAD PATH AVOIDING BRIDGE COLLAPSE AFTER DEMOLITION OF A PIER BY COLLISION PHILIPPE VAN BOGAERT, HANS DE BACKER</p>	<p>RAD-05: A LITERATURE REVIEW ON RISK FACTORS ON INTERNATIONAL CONSTRUCTION PROJECTS MUHAMMET AKYOL, GUL POLAT, ASLI PELIN GÜRGÜN -online-</p>
3	<p>MAT-02: GYROID CELL USAGE IN TOPOLOGY OPTIMIZATION OF LOAD-CARRYING PARTS MARKO KEGL, BOŠTJAN HARL, DEJAN DINEVSKI, JOŽEF PREDAN</p>	<p>AAE-12: IDENTIFYING CHALLENGES AFFECTING SUSTAINABLE CONSTRUCTION IN THE CONSTRUCTION INDUSTRY GÜLDEN GÜMÜSBURUN AYALP, YUSUF BERKAY METINAL -online-</p>
4	<p>STR-13: PERFORMANCE COMPARISON OF DERIVATIVE-FREE OPTIMIZATION METHODS MOHAMMAD SHAMIM MIAH, WERNER LIENHART</p>	<p>CPM-05: A REVIEW OF RESEARCH IN CONSTRUCTION INCENTIVIZATION SAI ON CHEUNG, QIUWEN MA, FONG CHUNG LEE, STEVEN HUMPHREY -online-</p>
5	<p>STR-02: FLEXURAL RESISTANCE OF COMPOSITE BEAMS, EB AND NSM BONDED PLATES CARL PIETER BRUWER</p>	<p>CPM-06: USE OF CONSTRUCTION INCENTIVE: SECTORAL DIFFERENCES QIUWEN MA, SAI ON CHEUNG, STEVEN HUMPHREY, FONG CHUNG LEE -online-</p>
6	<p>STR-07: EXPERIMENTAL INVESTIGATION OF AN EXISTING REINFORCED CONCRETE RESIDENTIAL BUILDING WITH AN OPEN GROUND FLOOR IN SEISMIC REGION BEFORE STRENGTHENING IAKOV ISKHAKOV, YURI RIBAKOV, SHARON YEHUDA</p>	<p>STR-29: DATA-DRIVEN ASSESSMENT OF SHEAR STRENGTH OF SINUSOIDAL CORRUGATED STEEL WEBS ROUBA ALZOUBI, SAMER BARAKAT, MUHAMMAD TALHA JUNAID. -online-</p>

Lunch Break 13:00 – 13:30



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Wednesday – May 15, 2024

Closing Session and Awards

13:30 – 14:00	Address of Conference Chair <i>Prof. Gintaris Kaklauskas (5 min)</i>	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius V-Room A Zoom link https://us02web.zoom.us/j/3365082496?pwd=MWh4WjhPbFZoS2RTdEIQMWWOcUJSQT09 PMI: 336 508 2496, Passcode: 395011, Main Zoom Rm
	Announcement of Best EURO MED SEC 5 Presentation Awards <i>Prof. Amarjit Singh and Prof. Remigijus Šalna (15 min)</i>	
	Announcements <i>Prof. Gintaris Kaklauskas (5 min.)</i>	
	Closing Remarks by ISEC Society <i>Prof. Amarjit Singh (5 min.)</i>	
18:00 – 21:00	Dinner Banquet	Vilnius Gediminas Technical University Address: Saulėtekio al. 11, Vilnius

Thursday, May 16, 2024

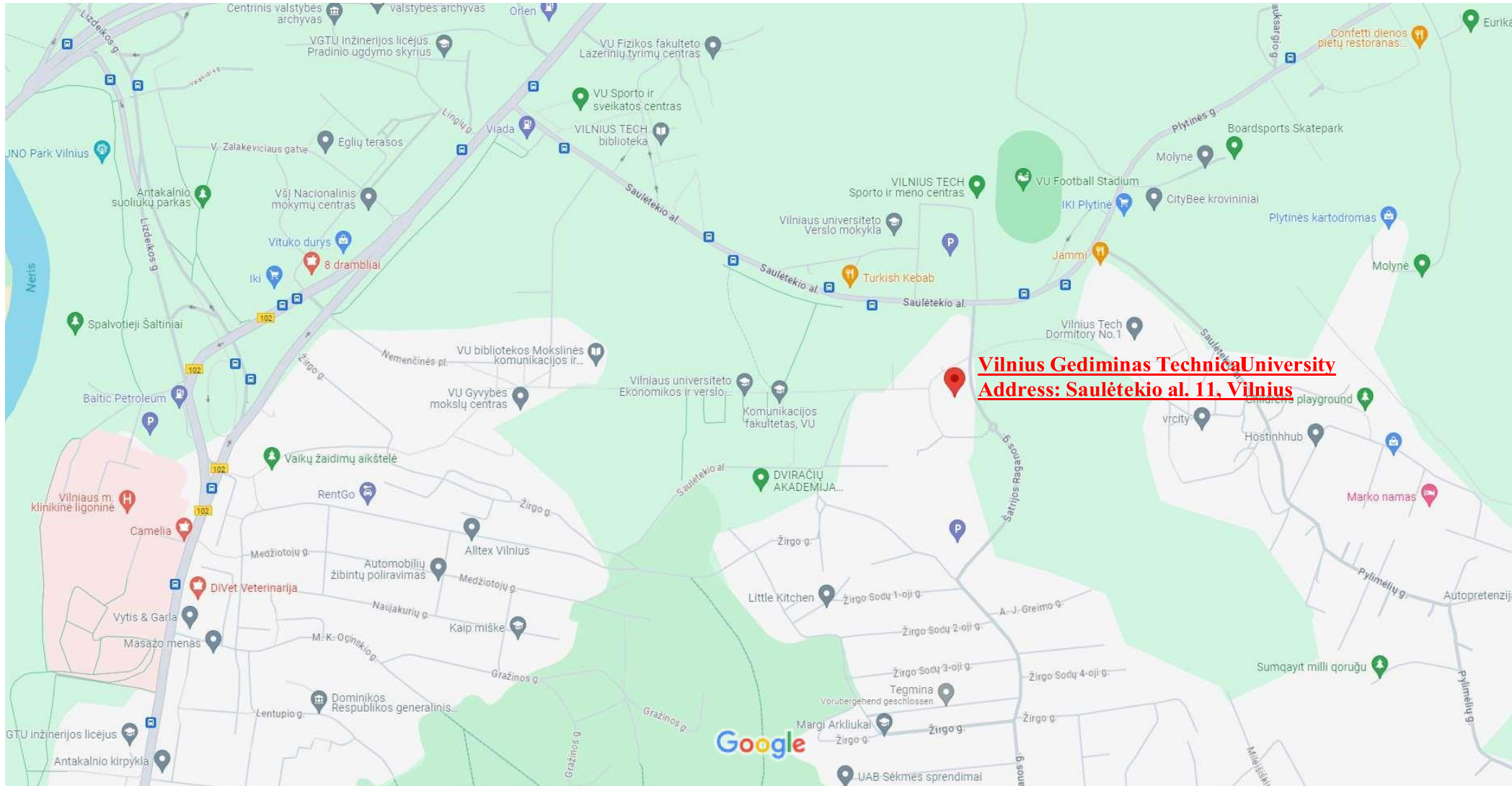
TBA	Technical Tour: The Palace of the Grand Dukes
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Friday, May 17, 2024

TBA	Cultural Tour: Walking tour through the medieval Vilnius
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