



WMCCAU 2024

**WORLD MULTIDISCIPLINARY
CONGRESS ON CIVIL ENGINEERING,
ARCHITECTURE AND URBAN PLANNING**

PROGRAM BOOK

Czech Republic, Ostrava | September 2-6, 2024

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**World Multidisciplinary Congress on Civil Engineering,
Architecture and Urban Planning**

(02 – 06 September 2024 – Ostrava, Czech Republic)

REGISTRATION

(From Monday 02 September, 2024 to Thursday 05 September, 2024)

02 September, 2024	Registration will start on Monday from 08:00 to 17:00 in Auditorium VSB-TUO
03 September, 2024	Registration continue from 9:00 to 16:00 in Auditorium VSB-TUO
04 September, 2024 05 September, 2024	Registration continue from 9:00 to 16:00 in Geological Pavilion VSB-TUO

Monday – 02 September, 2024

OPENING CEREMONY

(Auditorium VSB-TUO, hall UA2)

11:00 - 11:15 Opening Speeches

11:15 - 11:45 Opening Concert

11:45 - 12:30 Key Speaker

HUMAN PERCEPTION OF VIBRATION IN BUILDINGS

Alicja Kowalska-Koczwara

Cracow University of Technology, Poland

12:30 - 14:00 Lunch Break

14:00 - 14:45 Lecture

DEVELOPMENTS IN DEEP SOIL MIXING AND SOIL STABILIZATION TECHNOLOGIES

Jarosław Rybak

Wrocław University of Science and Technology, Poland

14:45 - 15:30 Lecture

METHODOLOGY FOR DISPLAYING SPATIO-TEMPORAL EVOLUTION OF DEM OF WATER RESERVOIRS BOTTOM USING VIRTUAL REALITY (VR)

Dariusz Popielarczyk, Tomasz Templin

University of Warmia and Mazury, Poland

15:30 - 16:15

Lecture

***CONTINUOUS VIBRATION MONITORING SYSTEM IN THE
WARSAW METRO AS AN EXAMPLE OF REDUCING EMISSIONS TO
THE ENVIRONMENT***

and

***AN INTERESTING CASE OF VIBRATIONS IN A HISTORIC BUILDING
ON THE UNESCO LIST***

Piotr Stecz

Cracow University of Technology, Poland

16:15 - 17:00

Lecture

EVALUATION IN THE TRANSPORT SECTOR AND SDGS

Lidia Żakowska

Cracow University of Technology, Poland

WELCOME PARTY

19:00

Outside before Auditorium VSB-TUO

or in Geological Pavilion VSB-TUO (due to weather conditions)



Tuesday – 03 September, 2024

ORAL PROGRAM

AUDITORIUM VSB-TUO - HALL UA2	
SESSION: Building Performance Simulations, Structural Engineering I	
Chairman: Hana Begić Juričić – Josip Juraj Strossmayer University of Osijek, Croatia	
10:00 - 10:15	ANALYZING THE WINDOW-TO-WALL RATIO IN SCHOOL FACADES OF OSIJEK-BARANJA COUNTY IN CROATIA Hana Begić Juričić – Josip Juraj Strossmayer University of Osijek, Croatia
10:15 - 10:30	SENSITIVITY ANALYSIS OF GEOMETRICALLY IMPERFECT SINGLE-STORY STEEL FRAME STRUCTURE – A COMPARISON OF TWO LOADING MODES Daniel Jindra – Brno University of Technology, Czech Republic
10:30 - 10:45	STUDY OF THE BEHAVIOUR OF MOMENT-RESISTING CONNECTION OF SOFTWOOD TIMBER ELEMENTS Janis Fabriciuss – University of Life Sciences and Technologies, Latvia
10:45 - 11:00	ESTIMATING SEISMIC PERFORMANCE FACTORS FOR A DUAL SYSTEM COMPRIZING OF BUCKLING RESTRAINED BRACE FRAMES AND INTERMEDIATE MOMENT FRAMES Rais Ahmad – California State University, Northridge, United States
COFFEE BREAK	
SESSION: Construction Materials I	
Chairman: Marek Iwański – Kielce University of Technology, Poland	
11:30 - 11:45	CHARACTERIZATION OF LAMINATED BAMBOO LUMBER USING DIGITAL IMAGE CORRELATION IN MECHANICAL TESTING Pascal Franck – RheinMain University of Applied Sciences, Germany
11:45 - 12:00	THE EFFECT OF THE DEDICATED BINDER ON THE PROPERTIES OF COLD RECYCLED MIXTURES Mateusz Marek Iwański – Kielce University of Technology, Poland

12:00 - 12:15	EFFECT OF WMA ADDITIVES ON ASPHALT AGEING – CASE STUDY Mateusz Marek Iwański – Kielce University of Technology, Poland
12:15 - 12:30	EFFECT OF SHEAR WALLS LENGTH ON THE BEHAVIOR OF REINFORCED CONCRETE STRUCTURES Sid Ali Rafa – National Center of Studies and Integrated Research on Building Engineering (CNERIB), Algeria
LUNCH BREAK	
SESSION: Transportation I	
Chairman: Janusz P. Kogut – Cracow University of Technology, Poland	
14:15 - 14:30	DESIGN OF PARKING INTERVENTIONS AND EVALUATION METHODOLOGY IN HOUSING AREA ESTATES Jiří Brož – Czech Technical University in Prague, Czech Republic
14:30 - 14:45	THE CONCEPT OF MONITORING LANDSLIDES ALONG THE RAILWAY TRACK LOCATED IN THE CARPATHIAN FLYSCH Janusz P. Kogut – Cracow University of Technology, Poland
14:45 - 15:00	ASSESSMENT OF THE LEVEL OF DEMAND RESPONSE BASED ON HYDROGEN CHARGING STATIONS IN KOREA Choongheon Yang – Korea Institute of Civil Engineering and Building Technology, South Korea
END OF ORAL SESSIONS	

GEOLOGICAL PAVILON VSB-TUO - HALL GP106	
SESSION: Urban Planning I	
Chairman: Andreea G. Gavril – Technical University of Cluj-Napoca, Romania	
10:00 - 10:15	FORECAST MODELS FOR ROAD TRAFFIC NOISE IN THE YEAR 2050 AS A BASIS FOR THE DEVELOPMENT OF MEASURES TO REDUCE NOISE IN URBAN AREAS Rumeysa Evli-Fründt – Ruhr-University Bochum, Germany
10:15 - 10:30	URBAN DEVELOPMENT – SPECIFIC ASPECTS OF THE CITY OF SUCEAVA DRIVEN BY THE ORTHODOX CHURCHES Andreea G. Gavril – Technical University of Cluj-Napoca, Romania
10:30 - 10:45	INNOVATIONS IN THE INTEGRATION OF SPORT EVENTS INTO THE ORGANISM OF A PARIS METROPOLIS Monika Šmiralová – Slovak University of Technology, Slovakia

10:45 - 11:00	SILHOUETTE OF THE CITY– HISTORICAL AND ARCHITECTURAL LANDMARKS Andreea G. Gavril – Technical University of Cluj-Napoca, Romania
COFFEE BREAK	
SESSION: Architectural Design and Methods I Chairman: Concetta Tavoletta – Università degli studi della Campania "Luigi Vanvitelli", Italy	
11:30 - 11:45	INFLUENCES OF SOCIAL CONTEXT TO ARCHITECTURE OF YUGOSLAVIA 1945-1990 Adnan Zoranić – International University of Sarajevo, Bosnia and Herzegovina
11:45 - 12:00	BUILDING ON THE BUILD. UNFINISHED ARCHITECTURE AND CONFISCATED PROPERTY AS NEW PALINSESTO FOR THE CONTEMPORARY ARCHITECTURE Concetta Tavoletta – Università degli studi della Campania "Luigi Vanvitelli", Italy
12:00 - 12:15	INFLUENCE OF CONSTRUCTION MATERIALS ON THE ENERGY EFFICIENCY OF THE BUILDING STOCK IN TEMPERATE AND TROPICAL CLIMATE Patrycja Haupt – Politechnika Krakowska, Poland
12:15 - 12:30	BASIC DEVELOPMENT ATTRIBUTES OF MODERNIST ARCHITECTURE IN SOCIALIST YUGOSLAVIA Adnan Zoranić – International University of Sarajevo, Bosnia and Herzegovina
LUNCH BREAK	
SESSION: Architectural Heritage and Conservation of Historical Structures Chairman: Ayşegül Özer – Ozyegin University, Turkey	
14:00 - 14:15	METHODOLOGY FOR THE EVALUATION OF THE PROPOSAL FOR THE RESTORATION OF SMALL ARCHITECTURE IN HISTORICAL PUBLIC SPACES: ON THE EXAMPLE OF THE RESTORATION OF KOCH'S GARDEN (NATIONAL CULTURAL MONUMENT) Martina Kalivodová – Slovak University of Technology, Slovakia
14:15 - 14:30	CONSERVATION-BASED METHODOLOGY FOR SULEYMANIYE WORLD HERITAGE AND RENEWAL SITE PROJECT: 'LIVING SULEYMANIYE' APPROACH Ayşegül Özer – Ozyegin University, Turkey

14:30 - 14:45	BULLRING: CULTURE, TRADITION AND DIFFERENCES BETWEEN SPAIN AND PORTUGAL Aura Liliana Romero Silva – University of Seville, Spain
14:45 - 15:00	DESIGN STRATEGY OF UNDERGROUND LAYERED SPORTS BUILDING BASED ON INTENSIVE THEORY Wenrui Cao – Harbin Institute of Technology, China
END OF ORAL SESSIONS	

POSTER PROGRAM

AUDITORIUM VSB-TUO - 10:00 – 16:00	
Stand No: 1	EVALUATION OF THE BEHAVIOUR OF A MACROPOROUS MORTAR COATING WITH RESPECT TO RISING DAMP M.S. Camino-Olea – University of Valladolid ETS of Architecture, Spain
Stand No: 2	THE LITHOLOGICAL COMPOSITION OF THE BED SEDIMENTS COLLECTED ALONG THE SF. GHEORGHE BRANCH (KM 85 – KM 15) (STREAMS, ARTIFICIAL CANALS, RECTIFIED MEANDERS, INCLUDING LATERAL CHANNELS AND LAKES), DANUBE DELTA, ROMANIA Irina Catianis – National Institute of Marine Geology and Geocology – GeoEcoMar, Romania
Stand No: 3	INNOVATIVE APPROACHES TO SENSITIVITY INDICES FOR STRUCTURAL RELIABILITY Libor Puklický – Brno University of Technology, Czech Republic
Stand No: 4	STRUCTURAL AND SPATIAL CHARACTERISTICS OF PANEL HOUSING ESTATES IN BRNO Pavel Juříček – Brno University of Technology, Czech Republic
Stand No: 5	ECOLOGY IN THE CONTEXT OF SUSTAINABILITY Terézia Pošiváková – University of Veterinary Medicine and Pharmacy of Košice, Slovakia
Stand No: 6	MODERN NATURE-BASED CONSTRUCTION TECHNOLOGIES AND THEIR PUBLIC PERCEPTION IN POLAND Ełżbieta Radziszewska-Zielina – Cracow University of Technology, Poland

Stand No: 7	TRAFFIC MANAGEMENT AS A MEANS OF PROTECTION AGAINST ROAD NOISE Marcin Dębiński – Lublin University of Technology Poland
Stand No: 8	FORECAST MODELS FOR ROAD TRAFFIC NOISE IN THE YEAR 2050 AS A BASIS FOR THE DEVELOPMENT OF MEASURES TO REDUCE NOISE IN URBAN AREAS Rumeysa Evli-Fründt – Ruhr-University Bochum, Germany
Stand No: 9	3D-PRINTED CLAY FORMWORK FOR TOPOLOGY-OPTIMIZED CONCRETE ELEMENTS Christine Döbert – Technische Hochschule Mittelhessen, Germany
Stand No: 10	OPTIMIZATION OF RECTANGULAR TANK CROSS-SECTION USING TRUST REGION GRADIENT METHOD Anna Szymczak-Graczyk – Poznan University of Life Sciences, Poland
Stand No: 11	INFLUENCE OF GEOMETRIC PARAMETERS ON INTERNAL FORCES IN THE WALLS OF RECTANGULAR TANKS Anna Szymczak-Graczyk – Poznan University of Life Sciences, Poland
Stand No: 12	ASSESSMENT OF THE BEHAVIOR OF A MINERAL-ASPHALT MIXTURE WITH AN INCREASED CONTENT OF ASPHALT GRANULES BASED ON LABORATORY AND FIELD TESTS Magdalena Wroblewska – Silesian University of Technology, Poland
Stand No: 13	APPLICATIONS OF LOW-CEILING PHOTOGRAMMETRY USING UAV TO VERIFY THE THICKNESS OF A MINERAL-ASPHALT PACKAGE Magdalena Wroblewska – Silesian University of Technology, Poland
Stand No: 14	OPTIMAL EARTHQUAKE INTENSITY MEASURE OF A TYPICAL ALGERIAN HIGHWAY BRIDGE Fouad Kehila – National Earthquake Engineering Research Center CGS, Algeria
Stand No: 15	SEISMIC VULNERABILITY AND DAMAGE ASSESSMENT OF AN EXISTING URM BUILDING Mustapha Remki – National earthquake engineering research center CGS, Algeria

Stand No: 16	CONCEPT, EVOLUTION AND SYMBIOSIS OF LANDSCAPE MICROCOSMS - FROM CONVENT FENCES TO SUBURBAN VILLAS Amílcar Gil Pires – University of Beira Interior, Portugal
Stand No: 17	PROTOTYPE FOR ARCHITECTURAL CREATION AND EXPERIMENTATION: METHOD FOR TEACHING ARCHITECTURAL DESIGN Viviana Frutuoso, Amílcar Gil Pires – University of Beira Interior, Portugal

Wednesday – 04 September, 2024

ORAL PROGRAM

GEOLOGICAL PAVILON VSB-TUO - HALL GP105	
SESSION: Geotechnics & Hydromechanics	
Chairman: Alicja Kowalska-Koczwara – Cracow University of Technology, Poland	
10:00 - 10:15	FROST EFFECT ON THE FOAMED CONCRETE-SUBSOIL SYSTEM BEHAVIOUR Marta Kadela – Building Research Institute (ITB), Poland
10:15 - 10:30	SELECTED ISSUES OF MEASUREMENT METHODOLOGY IN THE CONTEXT OF ASSESSING THE IMPACT OF VIBRATIONS ON PEOPLE IN BUILDINGS Alicja Kowalska-Koczwara – Cracow University of Technology, Poland
10:30 - 10:45	SMALL-SCALE PHYSICAL MODELLING OF AVEMENT STRUCTURE Veronika Valašková – University of Žilina, Slovakia
10:45 - 11:00	AN EXPERIMENTAL INVESTIGATION OF PRESSURE VARIATIONS IN DAM EMERGENCY OUTLET Joongcheol Paik – Gangneung-Wonju National University, South Korea
COFFEE BREAK	
SESSION: Risk Management and Mitigation Planning, Transportation II	
Chairman: Veronika Valašková – University of Žilina, Slovakia	
11:30 - 11:45	CONCRETE PROJECTION IN MINES - ASSOCIATED RISKS Rafael Ferreira de Souza – University of Algarve, Portugal
11:45 - 12:00	THE USE OF MACHINE LEARNING METHODS TO DETERMINE RISK ZONES FOR CONSTRUCTION DISASTERS CAUSED BY WIND - A CASE STUDY IN POLAND Ireneusz Laks – Poznan University of Life Sciences, Poland

12:00 - 12:15	<p>DEVELOPMENT OF A HYDROGEN CHARGING STATION INSTALLATION GUIDE CONSIDERING THE ACCESSIBILITY OF HYDROGEN VEHICLE DRIVERS</p> <p>Hyungkyu Kim – Korea Institute of Civil Engineering and Building Technology, South Korea</p>
12:15 - 12:30	<p>OPTIMAL LOCATION SELECTION MODEL FOR HYDROGEN FUELING STATION CONSIDERING TO MINIMIZE TRAFFIC VOLUME</p> <p>Dukgeun Yun – Korea Institute of Civil Engineering and Building Technology, South Korea</p>
LUNCH BREAK	
<p>SESSION: Architectural Design and Methods II, Architectural Culture, Accreditation of Civil Engineering and Architecture</p> <p>Chairman: Veronika Valašková – University of Žilina, Slovakia</p>	
14:00 - 14:15	<p>THE BARROCAL - DRY STONE TECHNIQUE AND CONSTRUCTION</p> <p>Marta Marçal Gonçalves – University of Algarve, Portugal</p>
14:15 - 14:30	<p>DIGITAL IMAGE CORRELATION AS A NON-INVASIVE METHOD FOR DETERMINING DISPLACEMENTS AND DEFORMATIONS IN CEMENT COMPOSITE SAMPLE</p> <p>Daria Jasińska – Bydgoszcz University of Science and Technology, Poland</p>
14:45 - 15:00	<p>PERFORMANCE OF CAG MODIFIED GEOPOLYMER MORTARS AT ELEVATED TEMPERATURES</p> <p>Maciej Dutkiewicz – Bydgoszcz University of Science and Technology, Poland</p>
END OF ORAL SESSIONS	

GEOLOGICAL PAVILON VSB-TUO - HALL GP106

SESSION: Structural Engineering II

Chairman: Ladislav Klusáček – Brno University of Technology, Czech Republic

10:00 - 10:15	STABILIZATION OF MASONRY ARCHES BY HIDDEN PRESTRESSING CABELS WITH THE POSSIBILITY OF CLEARENCE THE SPACE BY REMOVING THE FORGED TIE ROD Ladislav Klusáček – Brno University of Technology, Czech Republic
10:15 - 10:30	NUMERICAL ASSESSMENT OF CFS-SWP WITH DIFFERENT DOOR OPENING POSITIONS Idriss Rouaz – National Center of Studies and Integrated Research on Building Engineering (CNERIB), Algeria
10:30 - 10:45	HARNESSING TERRESTRIAL LASER SCANNING TECHNOLOGY FOR REMOTE ESTIMATION OF CATENARY CABLE TENSION Czesław Suchocki – Koszalin University of Technology, Poland
10:45 - 11:00	HYBRID GENETIC ALGORITHM TO PARAMETER IDENTIFICATION OF STRUCTURAL SYSTEMS WITH ADDED-DAMPING-AND-STIFFNESS DEVICE Grace Wang – Chaoyang University of Technology, Taiwan

COFFEE BREAK

SESSION: Construction Materials II

Chairman: Hassan Magbool – Jazan University, Saudi Arabia

11:30 - 11:45	THE EFFECT OF INDUSTRY WASTE MATERIAL AND STEEL FIBERS ON THE FRACTURE CHARACTERISTICS OF SELF-COMPACTING CONCRETE Hassan Magbool – Jazan University, Saudi Arabia
11:45 - 12:00	RESEARCH OF THE EXISTING POST-TENSIONED ROOF TRUSSES AND THEIR RELIABILITY Petr Mynarčík – VSB - Technical University of Ostrava, Czech Republic
12:00 - 12:15	INFLUENCE OF SUPPLEMENTARY CEMENTITIOUS MATERIALS ON SULFATE RESISTANCE OF MORTAR MIXTURES Craig M. Newtonson – New Mexico State University, USA
12:15 - 12:30	THE DAMPING OF VIBRATIONS AT THE TRANSFER POINTS OF BELT CONVEYORS USED IN THE CONSTRUCTION INDUSTRY Leopold Hrabovský – VSB - Technical University of Ostrava, Czech Republic

LUNCH BREAK

SESSION: Structural Engineering III, Construction Materials III

Chairman: Victor Rizov – Univesity of Architecture, Civil Engineering and Geodesy, Bulgaria

14:00 - 14:15	COMMON SOLUTION OF THE ENERGY DISSIPATION PROBLEM IN SHAFTS UNDER TIME-DEPENDENT ANGLES OF TWIST Victor Rizov – Univesity of Architecture, Civil Engineering and Geodesy, Bulgaria
14:15 - 14:30	SEISMIC FRAGILITY CURVES OF A RC TAKING INTO ACCOUNT THE SOIL-FOUNDATION INTERACTION Abderrahmane Kibboua – National Earthquake Engineering Research Center, Algeria
14:30 - 14:45	ANALYZING OF DELAMINATION IN SEMIRINGS ATTACHED TO NON-LINEAR ELASTIC TORSIONAL SPRINGS Victor Rizov – Univesity of Architecture, Civil Engineering and Geodesy, Bulgaria
14:45 - 15:00	MECHANICAL AND DURABILITY PERFORMANCE OF HEMATITE-RICH CALCINED CLAY CEMENT MORTAR Mohammed Seddik Meddah – Sultan Qaboos University, Oman

END OF ORAL SESSIONS

POSTER PROGRAM

GEOLOGICAL PAVILON VSB-TUO - 10:00 – 16:00	
Stand No: 1	<p>VERIFYING THE SHEAR LOAD CAPACITY OF SIMULTANEOUSLY HORIZONTALLY AND VERTICALLY REINFORCED MASONRY WALLS BY THE VRD – NED INTERACTION DIAGRAM</p> <p>Radosław Jasiński – Silesian University of Technology, Poland</p>
Stand No: 2	<p>HORIZONTAL STIFFNESS OF CONFINED MASONRY WALLS</p> <p>Radosław Jasiński – Silesian University of Technology, Poland</p>
Stand No: 3	<p>INTERNET OF THINGS AS A COMMUNICATION TOOL FOR EFFICIENT MANAGEMENT AND OPERATION OF BUILDINGS</p> <p>Jozef Švajlenka – Technical University of Košice, Slovakia</p>
Stand No: 4	<p>EFFECTIVE BUILDING OPERATION THROUGH THE BUILDING'S DIGITAL TWIN – CASE STUDY</p> <p>Jozef Švajlenka – Technical University of Košice, Slovakia</p>
Stand No: 5	<p>ADAPTATION OF HEAT PUMP OPERATION TO COLD CLIMATE CONDITIONS</p> <p>Karen Movsisyan – National University of Architecture and Construction of Armenia, Armenia</p>
Stand No: 6	<p>RESEARCH OF ENERGY EFFICIENCY OF CHILLERS USING INTERMEDIATE REFRIGERANT</p> <p>Karen Movsisyan – National University of Architecture and Construction of Armenia, Armenia</p>
Stand No: 7	<p>COMPARATIVE ASSESSMENT OF DEFLECTIONS OF VOIDED REINFORCED CONCRETE SLABS: FEM ANALYSIS AND MANUAL CALCULATIONS</p> <p>Norbert Jendželovský – STU Bratislava, Slovakia</p>
Stand No: 8	<p>IMPACT OF FREEZE-THAW CYCLES ON COATINGS APPLIED TO THE SURFACE OF ALKALI-ACTIVATED MATERIALS</p> <p>Lukáš Procházka, VSB - Technical University of Ostrava</p>
Stand No: 9	<p>ADVANCEMENTS IN LOW-CARBON CONCRETE AS A CONSTRUCTION MATERIAL FOR THE SUSTAINABLE BUILT ENVIRONMENT</p> <p>Fadi Althoey – Najran University, Saudi Arabia</p>
Stand No: 10	<p>IMPACT OF WORKS PARAMETERS ON PLASTIC ANCHORS RESISTANCE IN FOAMED CONCRETE</p> <p>Daniel Dudek – Building Research Institute (ITB), Poland</p>

Stand No: 11	RESEARCH OF OPTIMAL VENTILATION SCHEMES FOR CLASSROOMS Tigran Manukyan – National University of Architecture and Construction of Armenia, Armenia
Stand No: 12	FORECASTING RIDE-HAILING DEMAND IN URBAN AREAS: A DEEP ENSEMBLE AND TIME SERIES CLUSTERING APPROACH Kushal Acharya – Texas A&M University, United States
Stand No: 13	EVALUATING THE EFFECTS OF INTRODUCING MEETING POINTS TO RIDESHARING SYSTEM IN LARGE URBAN AREA Cheng Zhang – Texas A&M University, United States
Stand No: 14	EVALUATING THE EFFECT OF SWITCHING TAXI DEMAND INTO RIDESHARING MODE: A CASE STUDY IN CHICAGO Cheng Zhang – Texas A&M University, United States
Stand No: 15	ASSESSING THE RESILIENCY PRINCIPLES OF PRISHTINA, KOSOVO Adelina Tahiri Nela – University of Ljubljana, Slovinsko
Stand No: 16	PROPOSAL FOR THE ROOFING OF THE RUINS OF THE NKP BAROQUE CHURCH IN SEDLIACKA DUBOVÁ USING METHODOICAL DESIGN Filip Bránický – STU Bratislava, Slovakia
Stand No: 17	THE ROLE OF REWRITING IN POST-WAR RIVERBANK RECONSTRUCTION: THE CASE OF MOSUL Domenico Chizzoniti – Politecnico di Milano, Italy
Stand No: 18	ANALYSIS OF THE SUITABILITY OF PHASE VARIABLE MATERIALS FOR IMPROVING THE MICROCLIMATE INSIDE UNDERGROUND DOMESTIC SHELTERS Anna Zastawna-Rumin – Cracow University of Technology, Poland
Stand No: 19	ESTIMATION OF POWER REQUIRED BY BELT CONVEYOR MOTORS UNDER VARIABLE LOAD CONDITIONS USING SUPPORT VECTOR REGRESSION Anna Zastawna-Rumin – Cracow University of Technology, Poland

GALA DINNER

19:00	In Geological Pavilion VSB-TUO
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Thursday – 05 September, 2024

ORAL PROGRAM

GEOLOGICAL PAVILON VSB-TUO - HALL GP106	
SESSION: GIS-Based Modelling for Mitigation Planning, Sustainability in the Built Environment, Urban Planning II	
Chairman: Dariusz Popielarczyk – University of Warmia and Mazury, Poland	
10:00 - 10:15	PRACTICAL MEASUREMENT OF GNSS TECHNOLOGIES FROM EMLID AND SOKKIA RECEIVERS AND THEIR COMPARISON Ondřej Váňa – Czech Technical University in Prague, Czech Republic
10:15 - 10:30	UNDERSTANDING AND ADDRESSING ON-SITE MOISTURE PROTECTION CHALLENGES IN TIMBER CONSTRUCTION: A COMPREHENSIVE REVIEW OF GERMAN PRACTICES Kai Schubert – University of Applied Sciences Wismar, Germany
10:30 - 10:45	INFLUENCE OF VERTICAL GREEN SYSTEMS ON URBAN WATER CYCLE Cansu Iraz Seyrek Sik – Wrocław University of Science and Technology, Poland
10:45 - 11:00	USEFULNESS OF SWAT MODELING IN URBAN AREAS ON THE EXAMPLE OF POZNAŃ Anna Uciechowska-Grakowicz – Wrocław University of Environmental and Life Sciences, Poland
COFFEE BREAK	
SESSION: Public Space, Urban Planning III	
Chairman: Clemens Beyer – BOKU University, Austria Jobin Josh – VŠB Technical University of Ostrava, Czech Republic	
11:30 - 11:45	THE WEB ACCESSIBILITY VIEWER: A TOOL TO ASSIST TRAVELLING PERSONS WITH DISABILITIES Clemens Beyer – BOKU University, Austria

11:45 - 12:00	<p>URBANGRAPHICA: DIGITAL TWIN FOR ESTIMATION OF PUBLIC SPACES QUALITY Roman Hajtmanek – Slovak University of Technology, Slovakia</p>
12:00 - 12:15	<p>AGENT-BASED MODELLING FOR ENHANCING LIVEABILITY: ADDRESSING OVERCROWDED LIVING CONDITIONS AMONG URBAN MIGRANTS Jobin Josh – VŠB Technical University of Ostrava, Czech Republic</p>
12:15 - 12:30	<p>INDUSTRIAL CULTURE AND PLANNING OF ILLEGAL DEVELOPMENT AREA IN THE HISTORIC URBAN PERIPHERY - THROUGH THE PRACTICE FOR LEGALIZATION OF “OOIWA HIGHWAY NEIGHBORING AREA” IN FUSHIMI, KYOTO Yohei Kiyoyama – Kyoto University Katsura Campus, Japan</p>
END OF ORAL SESSIONS	

POSTER PROGRAM

GEOLOGICAL PAVILON VSB-TUO - 10:00 – 16:00	
Stand No: 1	AN INNOVATIVE THREE-LAYER MEMBRANE SYSTEM INTENDED FOR THE RENOVATION OF WATER AND SEWAGE INFRASTRUCTURE FACILITIES EXPOSED TO AGGRESSIVE SULFATE ENVIRONMENT Tomasz Pawlak – Poznań University of Life Sciences, Poland
Stand No: 2	EFFECT OF BIODEGRADABLE DEXTRIN LU-1400-2 ON SELECTED PROPERTIES OF CEMENT MORTARS Marta Sybis – Poznań University of Life Sciences, Poland
Stand No: 3	EXPANSIVE SOIL BEHAVIOUR IN TERMS OF CLIMATE CHANGE Zofia Zięba – Wrocław University of Environmental and Life Sciences, Poland
Stand No: 4	APPLICATION OF ADV METHOD FOR MEASUREMENT OF FLOW VELOCITY COMPONENTS IN THE MALINA STREAM Radoslav Schügerl – Slovak Academy of Sciences, Slovakia
Stand No: 5	CONTINUOUS VIBRATION MONITORING SYSTEM IN THE WARSAW METRO AS AN EXAMPLE OF REDUCING EMISSIONS TO THE ENVIRONMENT Piotr Stecz – Cracow University of Technology, Poland
Stand No: 6	PRACTICAL MEASUREMENT OF GNSS TECHNOLOGIES FROM EMLID AND SOKKIA RECEIVERS AND THEIR COMPARISON Ondřej Váňa – Czech Technical University in Prague, Czech Republic
Stand No: 7	IMPACT OF GREEN INFRASTRUCTURE ON FLOOD PREVENTION IN URBAN AREA Marek Sokáč – Institute of Hydrology, Slovak Academy of Sciences, Slovakia
Stand No: 8	EVALUATION OF HYDRO-METEOROLOGICAL CONDITIONS AT THE WATER RESERVOIR FOR SUPPLY OF DRINKING WATER IN THE PERIOD SINCE ITS COMMISSIONING Yveta Velísková – Institute of Hydrology, Slovak Academy of Sciences, Slovakia
Stand No: 9	GEOTECHNICAL ZONING MAP FOR AN INDUSTRIAL AREA IN THE CASTELO BRANCO REGION (PORTUGAL) L. M. Ferreira-Gomes – Beira Interior University, Portugal

Stand No: 10	SUBSIDIES ON GEOMORPHOLOGICAL AND GEOLOGICAL-STRUCTURAL ELEMENTS FOR THE KNOWLEDGE OF DEEP AQUIFER SYSTEMS OF HOT SULPHUROUS GROUNDWATERS IN THE MEDA REGION (PORTUGAL) L. M. Ferreira-Gomes – Beira Interior University, Portugal
Stand No: 11	STUDY ON THE SEISMIC-INDUCED LATERAL SPREADING ALONG THE WATERFRONT FOR TAIPEI BASIN Fu-Kuo Huang – Tamkang University, Taiwan
Stand No: 12	IMPACT OF MINING WASTE INCORPORATION AS FILLER FOR TOUT-VENANT AS ROAD GEOMATERIAL Maria Vitoria Morais – Universidade da Beira Interior, Portugal
Stand No: 13	INFLUENCE OF BLOCK RESISTANCE ON THE MECHANICAL STRENGTH OF BIMSOLS Melissa Parra – Universidad de Medellin, Colombia
Stand No: 14	AN EXAMPLE OF THE COMBINATION AND POST-PROCESSING OF UAV PHOTOGRAMMETRY AND ULS DATA WITH GOUND-BASED IMAGERY AND MLS FOR USE IN REALITY CAPTURE 3D MODEL APPLICATION Tomasz Kozakiewicz - University of Warmia and Mazury in Olsztyn, Poland
Stand No: 15	INTEGRATING PHOTOGRAMMETRY AND MAGNETOMETRY FOR ARCHAEOLOGICAL RESEARCH AT ARGAMUM, DOBRUJA Sorin Anghel – National Institute for Research and Development on Marine Geology and Geo-ecolog, Romania
Stand No: 16	THE CALCULATION OF THE SEASONAL PERFORMANCE FACTOR (SPF) OF A DOMESTIC HOT WATER HEAT PUMP INTEGRATED WITH A MECHANICAL VENTILATION INSTALLATION WITH HEAT RECOVERY FOR A RESIDENTIAL PREMISES IN THE ENERPHIT STANDARD Bartosz Radomski – Poznań University of Life Sciences, Poland
Stand No: 17	GEOTOURISM ASPECTS OF BUILDING STONE USE (ROMANESQUE STYLE AND THE ONSET OF GOTHIC) IN UNESCO HERITAGE SITES OF THE HISTORIC CENTRE OF PRAGUE FOR CONSTRUCTION AND ARCHITECTURAL PURPOSES Miloš Duraj – VSB - Technical University of Ostrava, Czech Republic

Friday – 06 September, 2024

FIELD TRIP

09:00	From bus stop VSB-TUO (Route will be announced in Venue)
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WMCCAU

SOCIAL PROGRAM

02 September, 2024 – Monday

Opening Concert in Auditorium VSB-TUO, hall UA2 – 11:15

Welcome Party outside before Auditorium VSB-TUO or in Geological
Pavilion VSB-TUO (due to weather conditions) - 19:00

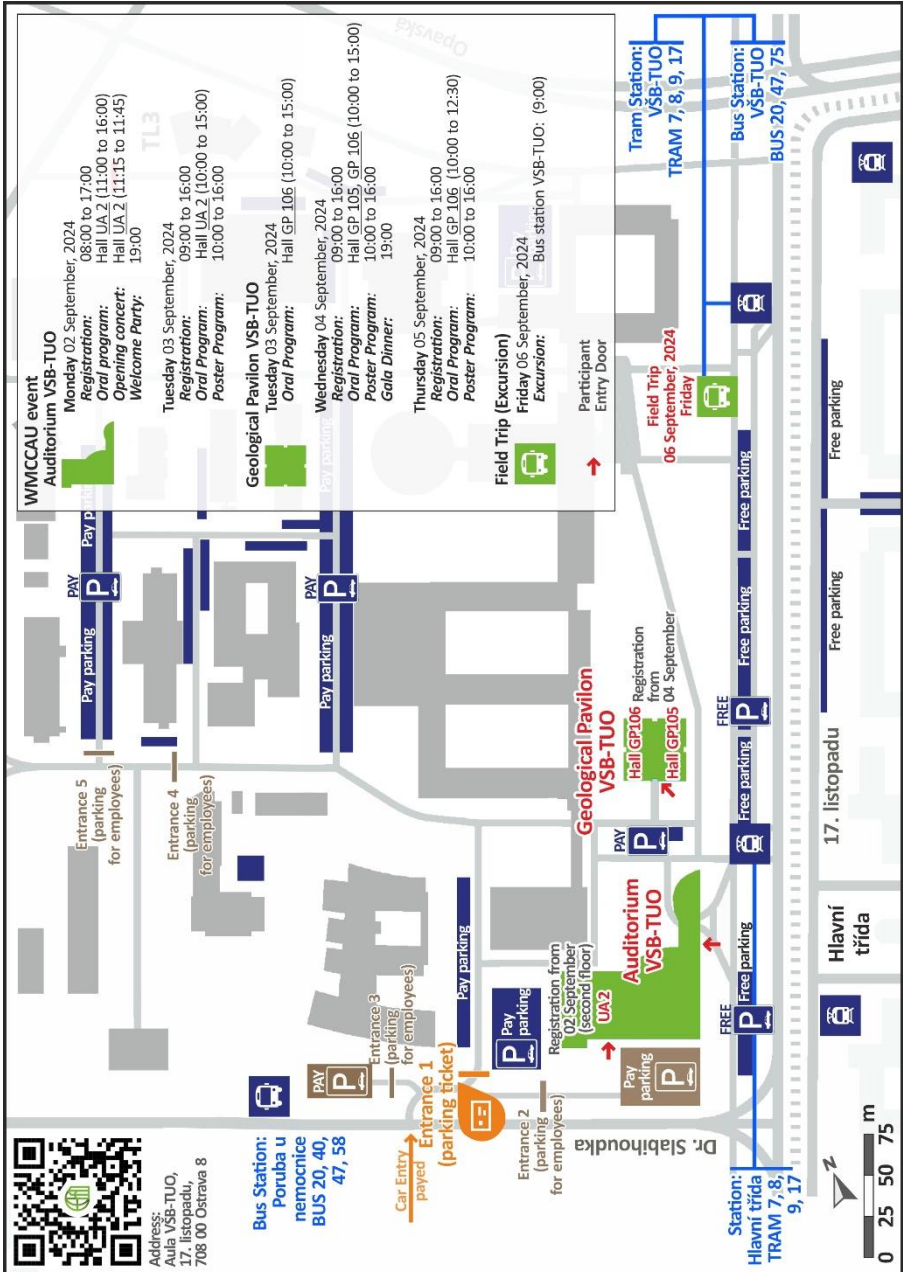
04 September, 2024 – Wednesday

Gala Dinner outside before Auditorium VSB-TUO or in Geological
Pavilion VSB-TUO (due to weather conditions) - 19:00

06 September, 2024 – Friday

Field Trip from bus stop VSB-TUO - 9:00

(Route will be announced in Venue)





WMCCAU 2024

WORLD MULTIDISCIPLINARY CONGRESS ON CIVIL ENGINEERING, ARCHITECTURE AND URBAN PLANNING

Czech Republic, Ostrava | September 2-6, 2024

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