

GENERAL CONFERENCE PROGRAMME

MONDAY, 26th SEPTEMBER 2022

FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE
OPOLE UNIVERSITY OF TECHNOLOGY
Katowicka 48, 45-061 Opole, Poland

14:00 - 16:00	Registration	18:00 - 18:15	Coffee break
16:00 - 17:00	Opening ceremony	18:15 - 19:15	Plenary session II (2 papers, co. presentation)
17:00 - 18:00	Plenary session I (2 papers, co. presentation)	19:15	Welcome reception

TUESDAY, 27th SEPTEMBER 2022

HOTEL MERCURE OPOLE
Krakowska 57/59, 45-018 Opole, Poland

07.30 - 08.45	Breakfast	13:45 - 14:15	Company presentations
09.00 - 11:00	Thematic session I	14:15 - 15:45	Lunch
11:00 - 11:30	Company presentations	16:00 - 19:00	Technical tour or visiting museums
11:30 - 11:45	Coffee break	20:00	Gala dinner in Hotel Mercure Opole
11:45 - 13:45	Thematic session II		

WEDNESDAY, 28th SEPTEMBER 2022

HOTEL MERCURE OPOLE
Krakowska 57/59, 45-018 Opole, Poland

07.30 - 08.45	Breakfast	12:00 - 13:15	Thematic session IV
09.00 - 11:00	Thematic session III	13:15 - 13:30	Closing ceremony
11:00 - 11:30	Company presentations	13:30	Lunch
11:30 - 12:00	Coffee break		

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MONDAY, 26th SEPTEMBER 2022

FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE
OPOLE UNIVERSITY OF TECHNOLOGY
Katowicka 48, 45-061 Opole, Poland

14:00 - 16:00 REGISTRATION

Lobby near the Assembly Hall of Prof. Oswald Mateja

16:00 - 17:00 OPENING CEREMONY

Assembly Hall of Prof. Oswald Mateja

Chairman: Zbigniew Perkowski, Dominika Bysiec

Speeches by the organizers and invited guests (representatives of the authorities of Opole University of Technology and Opole Voivodeship)

17:00 - 18:00 PLENARY SESSION I

Assembly Hall of Prof. Oswald Mateja

1) M. R. Massimino¹, G. Abate¹, A. Fiamingo¹, D. Pitilakis²

¹ Department of Civil Engineering and Architecture, University of Catania, Catania, Italy

² Department of Civil Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece

*SEISMIC RISK AND ENVIRONMENTALLY FRIENDLY SOLUTIONS:
THE GEOTECHNICAL POINT OF VIEW*

2) M. Pustelnik

Pracownia Projektowa MOSTOPOL sp. z o.o., Opole, Poland

*TECHNICAL ASPECTS OF THE DESIGNED RAILWAY BRIDGE OVER
THE ODRA RIVER IN OPOLE*

3) Presentation of company – INTOP Warszawa

18:00 - 18:15 COFFEE BREAK

Lobby near the Assembly Hall of Prof. Oswald Mateja

18:15 - 19:15 **PLENARY SESSION II**

Assembly Hall of Prof. Oswald Mateja

1) **O. Lavan, O. Idels**

Technion – Israel Institute of Technology, Haifa, Israel

SEISMIC RETROFITTING AND SEISMIC DESIGN USING ADVANCED TECHNOLOGIES: AN ENVIRONMENTAL POINT-OF-VIEW

2) **Z. Giergiczny**

Faculty of Civil Engineering, Silesian University of Technology, Gliwice, Poland

CEMENT AND CONCRETE IN A LOW-CARBON ECONOMY

3) **Company presentation – PORR**

19:15 **WELCOME RECEPTION**

Hall in the new wing of the Faculty of Civil Engineering and Architecture

TUESDAY, 27th SEPTEMBER 2022

HOTEL MERCURE OPOLE

Krakowska 57/59, 45-018 Opole, Poland

07:30 - 08:45 BREAKFAST

09:00 - 11:00 THEMATIC SESSION I: SEISMIC ENGINEERING, GEOTECHNICS

Presentation and discussion of the papers:

1) G. Abate, A. Fiamingo, M. R. Massimino

Department of Civil Engineering and Architecture, University of Catania,
Italy

*SUSTAINABLE BUILDING: THE ROLE OF THE SOIL ON
EARTHQUAKE SAFETY*

2) G. Abate, A. Fiamingo, M. R. Massimino

Department of Civil Engineering and Architecture, University of Catania,
Italy

*THE ROLE OF DSSI ON THE SEISMIC RISK ASSESSMENT OF AN
HISTORICAL BUILDING*

3) G. Dănilă, A. Iordăchescu, V. Petrescu, A. Basarab Cheșcă

"Ion Mincu" University of Architecture and Urbanism, Bucharest, Romania
*SEISMIC ISOLATION METHOD. A WAY TO REDUCE THE CARBON
FOOTPRINT.*

4) T. Maleska¹, N. Al Zubairi², A. Janda¹, D. Bęben¹, K. Embaby³

¹ Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

² Faculty of Engineering and Natural Science, Konya Technical University,
Ardıçlı, Mahal-lesi, Selçuklu, Turkey

³ AECOM, New York City, NY, USA

*IMPACT OF DURATION AND INTENSITY OF SEISMIC RECORDS ON
THE SOIL-STEEL BRIDGE BEHAVIOR*

5) D. Bysiec, A. Janda, T. Maleska

Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

*RESPONSE OF GEODESIC DOMES ON THE SEISMIC EXCITATION
WITH TIME HISTORY ANALYSIS*

6) E. M. J. da Silva, M. Oliveira

Institute of Engineering, University of Algarve, Portugal

ANALYSIS OF DYNAMIC COMPACTION EFFECTS – TAVIRA CASE STUDY

7) A. Valletta¹, A. Carri², R. Savi², A. Segalini¹

¹ Department of Engineering and Architecture, University of Parma, Parma, Italy

² ASE – Advanced Slope Engineering S.r.l., Parma, Italy

ALGORITHMS FOR THE NEAR-REAL TIME IDENTIFICATION AND CLASSIFICATION OF LANDSLIDE EVENTS DETECTED BY AUTOMATIC MONITORING TOOLS

11:00 - 11:30 COMPANY PRESENTATIONS

15-min. presentations of the companies:

1) Wienerberger Ceramika Budowlana

2) BSSTC.PL, *Kompaktowe stacje pomiarowo – integrujące All-in-One w ramach Systemu Zarządzania BMS Economic Health*

11:30 - 11:45 COFFEE BREAK

11:45 - 13:45 THEMATIC SESSION II: BRIDGE ENGINEERING, WIND ENGINEERING, ORGANIZATIONAL ISSUES

Presentation and discussion of the papers:

1) P. Bujňáková¹, J. Kraľovanec¹, M. Moravčík¹, F. Bahleda²

¹ Faculty of Civil Engineering, University of Žilina, Žilina, Slovakia

² Laboratory of Civil Engineering, University of Žilina, Žilina, Slovakia
DURABILITY AND ASSESSMENT OF EARLY POST-TENSIONED BRIDGES

2) D. Radu¹, R. Băncilă²

¹ Faculty of Civil Engineering, Transilvania University of Braşov, Romania

² Faculty of Civil Engineering, Politehnica University of Timişoara, Romania

ASSESSMENT AND RETROFITTING OF HISTORICAL STEEL BRIDGES IN TRANSILVANIA REGION PART OF THE SUSTAINABLE DEVELOPMENT

**3) O. Shymanovskiy¹, V. Shalinskiy¹, M. Shymanovska¹,
W. Baran²**

¹ Ukrainian Institute of Steel Construction, Kyiv, Ukraine

² Faculty of Civil Engineering and Architecture, Opole University of Technology, Opole, Poland

*STRESS STATE AND SEVERAL PROBLEMS OF ESTIMATING THE
ACTUAL OPERATION OF EFFECTIVE BRIDGE SUPERSTRUCTURES*

4) P. Tomala, A. Czerepak

ViaCon Polska Sp. z o.o., Rydzyna, Poland

*SOIL-STEEL BRIDGES VS CONVENTIONAL REINFORCED
CONCRETE BRIDGES – ENVIRONMENTAL IMPACT ISSUES*

5) T. Maleska¹, A. Wysokowski², D. Bęben¹

¹ Faculty of Civil Engineering and Architecture, Opole University of Technology, Opole, Poland

² Faculty of Civil Engineering, Architecture and Environmental Engineering, University of Zielona Góra, Zielona Góra, Poland
*NUMERICAL ANALYSIS AND EXPERIMENTAL VERIFICATION OF
SOIL-STEEL CULVERT WITH GEOTEXTILE REINFORCEMENT*

6) L. Kabošová¹, T. Baroš², S. Kmet³, E. Kormaníková³, D. Katunský²

¹ Center for Research and Innovation in Construction, Technical University of Košice, Košice, Slovakia

² Civil Engineering Faculty, Technical University of Košice, Košice, Slovakia

³ Structural Engineering Faculty, Technical University of Košice, Košice, Slovakia

WIND-BASED FORM-FINDING OF A TENSEGRITY PAVILION

7) J. Konior, M. Szóstak

Faculty of Civil Engineering, Wrocław University of Science and Technology, Wrocław, Poland

*COURSE SHAPING OF EARNED VALUES COSTS CURVES IN
DIVERSIFIED INVESTMENTS SECTORS*

13:45 - 14:15 **COMPANY PRESENTATIONS**

15-min. presentations of the companies:

- 1) FAKRO
- 2) HABA-Beton

14:15 - 15:45 **LUNCH**

16:00 - 19:00 **TECHNICAL TOUR TO THE GÓRAŹDZE CEMENT PLANT IN
CHORULA / VISITING MUSEUMS IN OPOLE**

20:00 **GALA DINNER IN THE HOTEL MERCURE OPOLE**

WEDNESDAY, 28th SEPTEMBER 2022

HOTEL MERCURE OPOLE

Krakowska 57/59, 45-018 Opole, Poland

07:30 - 08:45 BREAKFAST

**09:00 - 11:00 THEMATIC SESSION III: DURABILITY, INNOVATIVE SOLUTIONS,
DIAGNOSTICS, RECONSTRUCTION, ORGANIZATIONAL ISSUES,
ENVIRONMENTAL ENGINEERING**

Presentation and discussion of the papers:

1) K. Yurkova, T. Krykowski

Faculty of Civil Engineering, Silesian University of Technology, Gliwice,
Poland

*COMPARATIVE ANALYSIS OF THE USE OF DIFFERENT CONCRETE
MODELS IN THE EVALUATION OF THE PROPAGATION OF DAMAGE
IN THE REINFORCED CONCRETE SAMPLE*

2) R. Gliniorz, C. Petzoldt, K. Mandel, S. Gelbrich

Chemnitz University of Technology, Chemnitz, Germany

*ENERGY-EFFICIENT REINFORCED HEATING SYSTEM
IMPLEMENTED AS A CARBON CONCRETE FORMWORK*

3) P. Koteš, M. Zahuranec, M. Vavruš

Faculty of Civil Engineering, University of Žilina, Žilina, Slovakia

*DIAGNOSTIC AND DESIGN OF RECONSTRUCTION OF BUILDING
VÁHOSTAV*

4) D. Bajno, A. Grzybowska, M. Chylewska-Szabat

Faculty of Civil and Environmental Engineering and Architecture,

Bydgoszcz University of Science and Technology, Bydgoszcz, Poland

*ORIGINALITY AND SAFETY AS A PRIORITY IN THE REVITALIZATION
OF IMMOVABLE MONUMENTS?*

5) D. Przywara, A. Rak

Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

*ECONOMIC CONDITIONS OF LEAVING THE CONSTRUCTION SITE
BY THE CONTRACTOR AT DIFFERENT STAGES OF ITS
IMPLEMENTATION*

Discussion on the paper:

6) A. Rak, D. Przywara

Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

*IMPACT OF CONTAMINATION OF THE RAILWAY TRACK BED FOR
GROUNDWATER*

11:00 - 11:30 COMPANY PRESENTATIONS

15-min. presentations of the companies:

1) Remmers Polska

2) Xella Polska

11:30 - 12:00 COFFEE BREAK

**12:00 - 13:15 THEMATIC SESSION IV: ARCHITECTURE AND URBAN PLANNING,
BUILDING MATERIALS ENGINEERING**

Presentation and discussion of the papers:

**1) L. Trabattoni¹, C. Berizzi², M. Capotorto², G. N. Terlicher²,
M. Mazurkiewicz²**

¹ Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

² Pavia University, Pavia, Italy

*SUMMER CITY – SUSTAINABILITY STRATEGIES DECLINED
IN OUTDOOR ACCOMMODATION STRUCTURES IN ITALY*

2) A. Grajper¹, S. Dobiesz²

¹ Faculty of Civil Engineering and Architecture, Opole University of
Technology, Opole, Poland

² LAX laboratory for architectural experiment, Wrocław, Poland

*ECOLOGICAL ASPECT OF WATER RETENTION THROUGH ALGAE
BASED HYDRAULIC SYSTEMS IN INTERACTIVE ARCHITECTURE*

3) K. Wilk

Faculty of Civil Engineering and Architecture, Opole University of Technology, Opole, Poland

*THE USE OF A PREFABRICATED MASS TIMBER STRUCTURE
IN THE DESIGN OF SINGLE-FAMILY HOUSES IN TERMS OF
SUSTAINABLE DEVELOPMENT*

4) M. Zakrzewski, A. Sanok, J. Domski

Faculty of Civil Engineering, Environmental and Geodetic Sciences,
Koszalin University of Technology, Koszalin, Poland

*RHEOLOGICAL PROPERTIES OF CONCRETE BASED ON WASTE
MATERIALS*

Discussion on the papers:

5) A. Sanok, M. Zakrzewski, M. Lehmann, J. Domski

Faculty of Civil Engineering, Environmental and Geodetic Sciences,
Koszalin University of Technology, Koszalin, Poland

*EFFECT OF THE ADDITION OF WASTE FIBRES ON THE SOME
PROPERTIES OF CONCRETE*

6) D. Bajno¹, M. Fiutak², M. Niedostatkiewicz³

¹ Faculty of Civil and Environmental Engineering and Architecture,
Bydgoszcz University of Science and Technology, Poland

² Przedsiębiorstwo Projektowo-Usługowo-Handlowe "MARDOM" Marcin
Fiutak, Kluczbork, Poland

³ Faculty of Civil and Environmental Engineering, Gdańsk University of
Technology, Gdańsk, Poland

*RURAL BUILDING IN OPOLE REGION VILLAGES DURING
COLONIZATION PERIOD OF FREDERICK II*

13:15 - 13:30 CLOSING CEREMONY

Chairman: Damian Bęben

13:30 LUNCH

