ФИНАЛНА ПРОГРАМА FINAL PROGRAMME



"ОТПОРНИ KOHCTPYKLIИМ" "RESILIENT STRUCTURES"



ДГКМ

ДРУШТВО НА ГРАДЕЖНИ КОНСТРУКТОРИ НА МАКЕДОНИЈА

MACEDONIAN ASSOCIATION OF STRUCTURAL **ENGINEERS**

MASE 20 MET YHAPOJEH CUMITOSUYM INTERNATIONAL SYMPOSIUM

СКОПЈЕ, С. МАКЕДОНИЈА SKOPJE, N. MACEDONIA 28 - 29 септември 2023 September , 28th - 29th , 2023

Wednesday, September, 27th, 2023

1900-2100 Early registration of participants

Thursday, September, 28th, 2023

0800-0900 Registration of participants

0900-0915 Press statement

Opening ceremony (Diamond Hall)

- 3D Mapping show "Resilient Structures"
- Intonation of National, student and UKIM anthem
- Darko Nakov, President of MASE, Welcome and Opening speech,
 Celebrating 20 MASE Symposia and commemorating 60 years
 from Skopje earthquake
- Goran Markovski, Dean of FCE, UKIM, Celebrating 74 years from foundation of FCE, UKIM
 - Salute speeches
- Biljana Angelova, Rector of UKIM
- Armen Grygorian, UNDP Resident representative
- Tina Vejrum, President of IABSE
- Zlatko Markovic, President of ASES
- Primoz Moze, President of SDGK

Granting of MASE Awards

- Zoran Rakicevic, President of MAEE
- Rüdiger Höffer, Vice-dean of RUB, Germany
- Vladan Kuzmanovic, Dean of FCE, Belgrade, Serbia
- Marina Rakocevic, Dean of FCE, Podgorica, Montenegro
- Ana Baricevic, Vice-dean of FCE, Zagreb, Croatia
- Igor Pesko, Head of Department of CE, FTS, Novi Sad, Serbia
- Slavisa Trajkovic, Dean of FCEA, Nis, Serbia
- Vlatko Sheshov, Director of IZIIS, UKIM, Skopje, N. Macedonia
- Ognen Marina, Dean of AF, UKIM, Skopje, N. Macedonia
 Patron speech
- Blagoj Bochvarski, Minister for Transport and communications
- Granting of Honorary and Meritorious memberships of MASE

1100-1130 Coffee break

0930-1100

| | Thursday, September, 28 th , 2023 | | | | |
|------------------------------------|--|--|--|--|--|
| 11 ³⁰ -12 ⁰⁰ | Invited speakers (Diamond Hall) | | | | |
| | Chair: Darko NAKOV and Gjorgji GOSHEV | | | | |
| IP-10 | Tina VEJRUM RECORD LONG-SPAN BRIDGES – FROM GREAT BELT FIXED LINK TO STONECUTTERS AND 1915 ÇANAKKALE | | | | |
| 12 ⁰⁰ -13 ³⁰ | MASE Awards (Diamond Hall) | | | | |
| | Chair: Darko NAKOV and Gjorgji GOSHEV | | | | |
| MA-1 | Ivana DIMITROVA, Kristina MILADINOSKI CONSTRUCTION OF BRIDGE AT RIVER VARDAR, BOULEVARD ASNOM, BRIDGE MIHAJLO APOSTOLSKI | | | | |
| | Cvetanka CHIFLIGANEC | | | | |
| MA-2 | EXPERIMENTAL RESEARCH AND NUMERICAL ANALYSIS OF TIMBER-CONCRETE | | | | |
| | COMPOSITE SLABS AT AMBIENT TEMPERATURE AND IN FIRE Kristina MILKOVA | | | | |
| MA-3 | METHODOLOGY FOR DEVELOPMENT OF SEISMIC FRAGILITY CURVES FOR | | | | |
| | EXISTING UNREINFORCED MASONRY BUILDINGS | | | | |
| | Nikola NAUMOVSKI | | | | |
| MA-4 | INTEGRATED METODOLOGICAL APPROACH TO ANALYSIS OF RAILWAY TRAFFIC | | | | |
| | VIBRATION IMPACT ON PEOPLE AND FACILITIES Sergey CHURILOV, Elena DUMOVA-JOVANOSKA, Maja GOSHEVA, Veronika | | | | |
| | SHENDOVA, Lidija KRSTEVSKA, Bojan DAMCHEVSKI, Dime JANCHEV | | | | |
| MA-5 | EXPERIMENTAL INVESTIGATION OF REPOINTING ON THE SEISMIC PERFORMANCE | | | | |
| | OF UNREINFORCED MASONRY STRUCTURES | | | | |
| | Milos STOKUCA | | | | |
| MA-6 | IMPROVEMENT OF STRENGTH AND DEFORMABILITY OF STEEL STRUCTURES WITH ROOF AND SANDWICH PANELS | | | | |
| 20 20 | | | | | |
| 13 ³⁰ -14 ³⁰ | Buffet lunch (Foyer in front of Platinum Halls) | | | | |
| 14 ³⁰ -15 ³⁰ | Invited speakers (Diamond Hall) | | | | |
| | Chair: Roberta APOSTOLSKA and Marko MARINKOVIĆ | | | | |
| 10.5 | Alper ILKI, Caglar GOKSU, Bilal SARI, Hasan Huseyin AYDOGDU, Cem DEMIR | | | | |
| IP-5 | 2023 KAHRAMANMARAŞ EARTHQUAKES AND LESSONS LEARNT TOWARDS BUILDING RESILIENT CITIES WITH A FOCUS ON ISTANBUL | | | | |
| | Svetlana BRZEV | | | | |
| IP-2 | SEISMIC RESILIENCE OF CONFINED MASONRY BUILDINGS | | | | |
| 15 ³⁰ -16 ³⁰ | Presentation of sponsors (Diamond Hall) | | | | |
| 13 -10 | Chair: Roberta APOSTOLSKA and Marko MARINKOVIĆ | | | | |
| PS-1 | Platinum Sponsor: ADING | | | | |
| PS-2 | Platinum Sponsor: BECHTEL & ENKA | | | | |

| | Thursday, September, 28 th , 2023 | | | | | |
|------------------------------------|---|--|--|--|--|--|
| 15 ³⁰ -16 ³⁰ | Presentation of sponsors (Diamond Hall) Chair: Roberta APOSTOLSKA and Marko MARINKOVIĆ | | | | | |
| PS-3 | Platinum Sponsor: GOLDEN ART | | | | | |
| | · | | | | | |
| PS-4 | Platinum Sponsor: PENETRON & IZOTEHNA | | | | | |
| 16 ³⁰ -16 ⁴⁵ | Coffee break | | | | | |
| 16 ⁴⁵ -17 ¹⁵ | Invited speakers (Diamond Hall) Chair: Koce TODOROV and Marta STOJMANOVSKA | | | | | |
| IP-9 | Vlatko SHESHOV 60 YEARS OF SKOPJE EARTHQUAKE – IZIIS FOR SKOPJE | | | | | |
| 1715-1845 | Session 1: Resilient Skopje (Diamond Hall) Chair: Koce TODOROV and Marta STOJMANOVSKA | | | | | |
| RDS-3 | Elena DUMOVA-JOVANOSKA, Grozde ALEKSOVSKI, Liljana DENKOVSKA, Sergey CHURILOV, Kristina MILKOVA, Simona BOGOEVSKA SEISMIC VULNERABILITY OF PRE-CODE MASONRY BUILDINGS, PROJECT SEISMOWALL | | | | | |
| RSC-2 | Roberta APOSTOLSKA, Veronika SHENDOVA, Goran JEKIC, Golubka NECEVSKA- CVETANOVSKA, Zivko BOZINOVSKI IZIIS FOR SEISMIC RESILIENT SKOPJE | | | | | |
| MRS-3 | Shpresim IBRAIMI, Boris TANESKI, Miroslav NASTEV, Stanislav MILOVANOVIC 1963 SKOPJE EARTHQUAKE: OBSERVED DAMAGE TO BUILDINGS | | | | | |
| RSC-11 | ZOTAN MILUTINOVIC, RADMIIA SALIC MAKRESKA UN ASSISTANCE AND CONTRIBUTION TO DEVELOPMENT OF EARTHQUAKE ENGINEERING – EUROPEAN AND WORLDWIDE | | | | | |
| RSC-8 | Milorad JOVANOVSKI, Igor PESHEVSKI, Jovan Br. PAPIC, Andrijana ANDREEVA, Lidija TRPENOVSKA, Julijana STAVREVSKI GEOTECHNICAL ZONNING MAPS—PREREQUISITE FOR DESIGN OF RESILIENT STRUCTURES | | | | | |
| NES-12 | Goran MARKOVSKI, Meri CVETKOVSKA, Vukan NJAGULI, Leonardo MANTA, Marija DOCEVSKA JOVANOVA ANALYSIS OF THE FIRE EXPOSED BRIDGE "BELASICA" IN SKOPJE | | | | | |
| 18 ⁴⁵ -19 ³⁰ | Poster Session (Foyer in front of Platinum Halls) | | | | | |
| BIM-1 | Roberta APOSTOLSKA, Lars ABRAHAMCZYK, Ruediger HÖFFER, Davorin PENAVA, Nuno LOPES, Uwe KAHLER, Mahsa MIRBOLAND, Peshawa. L. HASAN, Filip MANOJLOVSKI EDUCATIONAL NETWORK FOR VIRTUAL LABORATORY EXPERIMENTS IN STRUCTURAL ENGINEERING | | | | | |
| BIM-4 | Angel MAČEVSKI, Dušan ROŽIČ, Milan KUHTA PARAMETRIC BIM WORKFLOW FOR BRIDGE DESIGN | | | | | |

Thursday, September, 28th, 2023

| 18 ⁴⁵ -19 ³⁰ | Poster Session (Foyer in front of Platinum Halls) |
|------------------------------------|--|
| BIM-6 | Aleksandar PETROVSKI, Aleksandar ANDJELKOVIC, Roman RABENSEFIER, Norbert HARMATHY COMPARISON OF TOOLS FOR SUSTAINABLE BUILDINGS` DESIGN OPTIMIZATION |
| CM-1 | Petar JANEV, Marko GJORGJIOSKI, Darko NAKOV, Toni ARANGJELOVSKI COMPARISON OF DESIGN OF RECTANGULAR CROSS SECTIONS REINFORCED ONLY IN THE TENSION ZONE ACCORDING TO PBAB/87 AND EUROCODE 2 |
| CM-2 | Emil KOCHOVSKI SKI HUT "TRIFKOVA KOLIBA" MAVROVO – DESIGN OF STEEL FOR THE THIN MOUNTAIN AIR |
| CM-3 | Marijana LAZAREVSKA, Vasko GACEVSKI DETERMINATION OF CRITICAL PATH IN FUZZY NETWORK DIAGRAMS |
| CM-4 | Teodora MIHAJLOVSKA, Elena DUMOVA-JOVANOSKA, Ana TROMBEVA-GAVRILOSKA FORM-FINDING OF AN ENVELOPE OF A DOUBLE-LAYER SHELL SUBJECTED TO SEISMIC LOADING |
| CM-8 | Nikola NISEV, Ana TROMBEVA GAVRILOSKA, Denis POPOVSKI LIFE CYCLE ASSESSMENT FOR CONSTRUCTION OF AN ENCLOSED SWIMMING POOL |
| CM-10 | Marija PETKOVSKA, Zlatko ZAFIROVSKI PERFORMANCE EXPERIENCES FOR DIVERSION TUNNELS AT DAMS WITH ACCUMULATION |
| CM-11 | Emilija RISTOVA, Darko NAKOV INFLUENCE OF SEISMIC HAZARD AND IMPORTANCE CLASS ON THE BEHAVIOR OF REINFORCED CONCRETE STRUCTURAL ELEMENTS |
| CM-12 | Angelko STOJANOVSKI, Toni ARANGELOVSKI, Denis POPOVSKI, Darko NAKOV COMPARISON OF COMPLETELY AND PARTIALLY CONCRETED COMPOSITE COLUMNS ACCORDING TO EUROCODE 4 |
| CM-13 | Angelko STOJANOVSKI, Toni ARANGELOVSKI, Denis POPOVSKI, Darko NAKOV COMPARISON OF CODE FOR DESIGN AND ANALYSIS OF COMPOSITE COLUMNS |
| MMT-3 | Vesna BULATOVIĆ, Tiana MILOVIĆ, Anka STARČEV-ĆURČIN EVALUATION OF SULFATE RESISTANCE OF CONCRETE WITH RCA THROUGH LENGTH CHANGE AND THERMAL ANALYSIS |
| MMT-4 | Radovan CVETKOVIĆ, Stefan CONIĆ, Dragoslav STOJIĆ, Nemanja MARKOVIĆ COMPOSITE STRUCTURES TYPE OF CROSS LAMINATED TIMBER AND CONCRETE |
| MMT-5 | Ksenija JANKOVIĆ, Dragan BOJOVIĆ, Marko STOJANOVIĆ, Anja TERZIĆ, Srboljub STANKOVIĆ THE PROPERTIES OF HEAVYWEIGHT SELF-COMPACTING CONCRETE ON WATER PENETRATION UNDER PRESSURE |
| MMT-10 | Mihail NAUMOVSKI, Marijana LAZAREVSKA ENVIRONMENT AS AN ASPECT OF LIFE CYCLE ASSESSMENT ANALYSIS TOWARDS SUSTAINABLE BUILDINGS |

Thursday, September, 28th, 2023

| 18 ⁴⁵ -19 ³⁰ | Poster Session (Foyer in front of Platinum Halls) | | | | | |
|------------------------------------|---|--|--|--|--|--|
| MMT-11 | Marija PETROVA REVIVING VERTICAL LIVING: DEVELOPMENT OF RESIDENTIAL TOWERS IN MACEDONIAN CITIES | | | | | |
| RDS-1 | Kenneth C. CRAWFORD RC BRIDGE FAILURES IN EARTHQUAKES | | | | | |
| RDS-2 | Sofija DUSHANOVSKA, Aleksandar BOGOEVSKI, Dragan DIMITRIEVSKI, Katerina VELESKA INFLUENCE OF THE ENVIRONMENT ON THE CONCRETE COVER | | | | | |
| MMT-12 | Goce PRANGOVSKI, Suzana ARANGJELOVSKA, Nikola TRPESKI, Marija MENCHEVSKA, Gjorgji GOSHEV INFLUENCE OF WASTE ASH FROM COMBUSTED WOOD BIOMASS ON THE PHYSICAL AND MECHANICAL CHARACTERISTICS OF CONCRETE | | | | | |
| MMT-13 | Adriana SALLES, Rand ASKAR, Camila CERVANTES, Luis BRAGANÇA, Meri CVETKOVSKA CREATING A ROADMAP TOWARDS CIRCULARITY IN THE BUILT ENVIRONMENT | | | | | |
| MMT-14 | Todorka SAMARDZIOSKA, Andrea VELKOVA, Ivan NAUMOVSKI THERMAL PROPERTIES OF SUSTAINABLE CEMENTITIOUS COMPOSITES WITH STRAW | | | | | |
| MMT-15 | Dragana STANOJEVIĆ, Vladimir MUČENSKI, Milena SENJAK PEJIĆ, Mirjana TERZIĆ, Panta KRSTIĆ ANALYSIS OF CARBON FOOTPRINT IN CERTAIN PHASES OF THE CONSTRUCTION PROJECT | | | | | |
| MMT-18 | Marko STOJANOVIC, Lana ANTIĆ ARANĐELOVIĆ, Dragan BOJOVIĆ, Ksenija JANKOVIĆ THE INFLUENCE OF STEEL FIBERS OBTAINED BY RECYCLING WASTE TIRES ON THE PROPERTIES OF CONCRETE | | | | | |
| MMT-20 | Slobodan ŠUPIĆ, Gordana BROĆETA, Mirjana MALEŠEV, Anđelko CUMBO, Vladan PANTIĆ, Ivan LUKIĆ, Marina LATINOVIĆ DEVELOPMENT OF ENVIRONMENTALLY FRIENDLY CORN COB ASH BLENDED CEMENT MORTAR | | | | | |
| MMT-22 | Anja TERZIĆ, Ksenija JANKOVIĆ THE DESIGN OF CEMENTITIOUS COMPOSITES WITH ADVANCED THERMAL PROPERTIES | | | | | |
| MRS-1 | Festim ADEMI, Elena DUMOVA-JOVANOSKA, Sergey CHURILOV, Enis JAKUPI SEISMIC RETROFIT OF MASONRY WALLS USING REPOINTING | | | | | |
| MRS-2 | Ana BARIČEVIĆ, Antonija OCELIĆ, Zvjezdana MATUZIĆ, Miljenko VUČIĆ SULPHATE RESISTANCE OF WOOD-BIOMASS-ASH INJECTION GROUT | | | | | |
| MRS-4 | Emil KOCHOVSKI ALL ALONG THE WATCHTOWER | | | | | |
| MRS-6 | Vladan PANTIĆ, Vlastimir RADONJANIN, Mirjana MALEŠEV, Slobodan ŠUPIĆ, Ivan LUKIĆ, Zoran BRUJIĆ THE ASSESSMENT OF THE LOAD-BEARING STRUCTURE OF STADIUM "RFC NOVI SAD" | | | | | |
| MRS-9 | Borče VELJANOVSKI, Jovan Br. PAPIĆ, Andrea TANEVSKI REGENERATING THE SKOPJE AQUEDUCT | | | | | |

Thursday, September, 28th, 2023

| 18 ⁴⁵ -19 ³⁰ | Poster Session (Foyer in front of Platinum Halls) | | | | |
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| NES-1 | Aleksandra CHUBRINOVSKA, Denis POPOVSKI, Mile PARTIKOV | | | | |
| | ANALYSIS OF FRAMING SYSTEMS FOR BOX SECTIONS WITH DISTORTION EFFECTS | | | | |
| NES-7 | Konstantin KAZAKOV, Lena MIHOVA, Doncho PARTOV | | | | |
| | INTERPRETATION OF BURIED ARCH BRIDGE RESPONSE TO SEISMIC IMPACT | | | | |
| | Ivan LUKAČEVIĆ, Ivan ĆURKOVIĆ, Andrea RAJIĆ, Vlaho ŽUVELEK | | | | |
| NES-9 | BENDING RESISTANCE OF COMPOSITE STEEL-CONCRETE FLOOR SYSTEM MADE OF BUILT-UP COLD-FORMED STEEL ELEMENTS | | | | |
| | Filip MANOJLOVSKI, Zoran RAKICEVIC, Aleksandra BOGDANOVIC, Antonio | | | | |
| | SHOKLAROVSKI, Angela POPOSKA | | | | |
| NES-10 | REPAIR OF REINFORCED CONCRETE COLUMN HINGES BY POLYURETHANE | | | | |
| | JACKETING | | | | |
| | Mladen MUHADINOVIĆ, Duško LUČIĆ | | | | |
| NES-14 | PREVIOUS AND FURTHER RESEARCH OF BEAM COLUMN JOINT IN ALUMINIUM | | | | |
| | STRUCTURES – COLUMN WEB RESISTANCE IN TRANSVERSE COMPRESSION | | | | |
| | Pavle RISTESKI, Denis POPOVSKI, Nikola NISEV, Antonio TOMESKI | | | | |
| NES-21 | EXPERIMENTAL AND ANALYTICAL RESEARCH OF THE BEHAVIOUR OF CHEMICAL | | | | |
| | ANCHORS AS SHEAR CONNECTORS | | | | |
| NES-22 | Jelena RISTIC, Zijadin GURI, Danilo RISTIC | | | | |
| | TESTING AND MODELING OF GFRP AND STEEL REINFORCED COLUMNS UNDER | | | | |
| | CYCLIC BENDING AND VARYING AXIAL LOADS Antonio SHOKLAROVSKI, Aleksandra BOGDANOVIC, Zoran RAKICEVIC, Angela | | | | |
| NES-23 | POPOSKA, Filip MANOJLOVSKI | | | | |
| NL3-23 | EXPERIMENTAL TESTS OF BRIDGE STRUCTURES | | | | |
| | Nikola SIMOV, Denis POPOVSKI, Nikola NISEV, Antonio TOMESKI | | | | |
| NES-24 | EXPERIMENTAL AND ANALITICAL RESEARCH OF THE BEHAVIOR OF MECHANICAL | | | | |
| | ANCHORS AS SHEAR CONNECTORS | | | | |
| | Angelko STOJANOVSKI, Dragan DUGANOV, Cvetan ZAFIROV, Filip NANEVSKI, | | | | |
| NES-25 | Nikola MITOVSKI, Maja BUNDEVSKA, Iva LAZAREVSKA, Tamara GEORGIEVSKA | | | | |
| NL3-23 | DYNAMIC LOADING OF REINFORCED CONCRETE PILES ON VIADUCT OF JABUCHKI | | | | |
| | DOL AND BRIDGE ON THE RIVER BLIDESH | | | | |
| NES-31 | Antonio TOMESKI, Marko GJORGJIOSKI, Petar JANEV, Sead ABAZI | | | | |
| | STATIC AND DYNAMIC ANALYSIS OF A SPREAD FOUNDATION ACCORDING TO EUROCODE | | | | |
| | Zlatko ZAFIROVSKI, Vasko GACEVSKI, Ivona NEDEVSKA, Riste RISTOV, Slobodan OGNJENOVIKJ, Bojan SUSINOV, Sead ABAZI | | | | |
| NES-32 | NUMERICAL ANALYSIS OF A HYDROTECHNICAL TUNNEL IN THE TORANICA MINE | | | | |
| | ASSEMBLY | | | | |
| | Kaltrina SPAHIU | | | | |
| RDS-7 | CLAY IN BUILDING FACADES | | | | |
| | Maja ANACKOVA, Simona DOMAZETOVSKA, Viktor GAVRILOSKI, Zlatko PETRESKI | | | | |
| RSC-1 | ANALYSIS OF THE EFFECTIVENESS OF SOUND BARRIERS FOR TRAFFIC NOISE | | | | |

CONTROL IN THE CITY OF SKOPJE

| | Thursday, September, 28 th , 2023 | | | | | |
|------------------------------------|--|--|--|--|--|--|
| 18 ⁴⁵ -19 ³⁰ | Poster Session (Foyer in front of Platinum Halls) | | | | | |
| RSC-3 | Sanja AVRAMOSKA DESIGNING RESILIENT URBAN RIVER CORRIDORS: TRENDS IN RIVER REDEVELOPMENT PROJECTS IN THE LAST TWO DECADES | | | | | |
| RSC-4 | Željka BELJKAŠ, Nikola KNEŽEVIĆ, Jasmina ĆETKOVIĆ, Bojan ADŽIĆ FACILITY FOR THE STRAY DOGS POPULATION IN VARDAR PLANNING REGION | | | | | |
| RSC-7 | Dejan JANEV, Darko NAKOV, Toni ARANGJELOVSKI CONCRETE FOR RESILIENT INFRASTRUCTURE: REVIEW OF BENEFITS, CHALLENGES AND SOLUTIONS | | | | | |
| RSC-9 | GORAN MICKOVSKI, ANA IVANOVSKA DESKOVA, JOVAN IVANOVSKI OLD BUILDINGS NEW POSIBILITIES, CASE STUDY OF INDUSTRIAL BUILDINGS IN SKOPJE | | | | | |
| RSC-10 | Goran MICKOVSKI, Slobodan VELEVSKI, Aleksandar RADEVSKI, Dimitar KRSTESKI PERSPECTIVES FOR INDUSTRY DEVELOPMENT IN SKOPJE | | | | | |
| RSC-14 | Vasil PENCHEV, Doncho PARTOV BRIEF CRITICAL ANALYSIS OF THE NORMATIVE SEISMIC INSURANCE OF BUILDINGS IN THE REPUBLIC OF BULGARIA | | | | | |
| RSC-15 | Borjan PETRESKI, Igor GJORGJIEV, Aleksandar ZHUROVSKI THE INFLUENCE OF THE RATIO OF SECTION SIDES OF A RECTANGULAR COLUMN ON SEISMIC RESPONSE OF A RC BUILDING | | | | | |
| RSC-16 | Irina POSTOLOVA, Zlatko ZAFIROVSKI, Meri CVETKOVSKA, Milosh KNEZHEVIKJ FIRE PROTECTION MEASURES IN TUNNELS | | | | | |
| RSC-18 | Zlatko SRBINOSKI, Zlatko BOGDANOVSKI, Filip KASAPOVSKI, Tome GEGOVSKI, Filip PETROVSKI DEFINING REGIONAL GEODYNAMIC PHENOMENA BASED ON MEASUREMENTS IN ACTIVE REFERENCE NETWORKS | | | | | |
| RSC-19 | Goce TASESKI, Nikola KRSTOVSKI INCREASING CITIES RESILIENCE THROUGH IMPROVED STORM WATER MANAGEMENT | | | | | |
| SHM-1 | Hassan AWADAT SALEM A COMPARATIVE STUDY ON THE METHODS OF MIXING THE MODIFIED ASPHALT | | | | | |
| SHM-2 | Shpresim IBRAIMI, Stanislav MILOVANOVIC, Grozde ALEKSOVSKI, Boris TANESKI, Zoran ALTIPARMAKOV RECONSTRUCTION OF THE XI CENTURY CATHEDRAL CHURCH AT KALE FORTRESS BITOLA | | | | | |
| вім-з | Liljana DIMEVSKA SOFRONIEVSKA, Ana TROMBEVA GAVRILOSKA, Meri CVETKOVSKA, Bojan KARANAKOV, Dobre NIKOLOVSKI THE IMPORTANCE OF COMPUTER SOFTWARE IN BUILDINGS' ENERGY PERFORMANCE ANALYSIS | | | | | |
| NES-17 | Angela POPOSKA, Zoran RAKICEVIC, Aleksandra BOGDANOVIC, Antonio SHOKLAROVSKI, Filip MANOJLOVSKI NUMERICAL MODELLING OF SELF-CENTERING CONCENTRICALLY BRACED STEEL FRAMES | | | | | |

21°°-01°° MASE Gala Dinner (Diamond Hall)
Music: Petar Rendzov band
Dress code: Elegant

Included: Dinner and unlimited selected drinks

| | Friday, September, 29 th , 2023 | | | | | |
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| 08 ³⁰ -09 ³⁰ | Invited speakers (Diamond Hall) Chair: Toni ARANGJELOVSKI and Ivan IGNJATOVIĆ | | | | | |
| IP-8 | Gerard J. O'REILLY EUROPEAN RESEARCH SYNERGIES TOWARDS LOSS AND RISK-DRIVEN MITIGATION APPROACHES | | | | | |
| IP-1 | Josip Atalić, Mario Uroš, Marta ŠAVOR NOVAK, Marija DEMŠIĆ, Maja BANIČEK, Alen KADIĆ, Nika RAKAS, Ivan KOSALEC, Maja MRKONJIĆ 2020 EARTHQUAKES IN CROATIA: FROM DAMAGE ASSESSMENT PROCESS TO THE NATIONAL STRATEGIES | | | | | |
| 0930-0940 | <u>Presentation of sponsors (Diamond Hall)</u> Chair: Toni ARANGJELOVSKI and Ivan IGNJATOVIĆ | | | | | |
| GS-1 | Gold Sponsor: DOJRAN STEEL | | | | | |
| 09 ⁴⁵ -10 ⁴⁵ | Parallel Session 4 (Diamond Hall) Chair: Toni ARANGJELOVSKI and Ivan IGNJATOVIĆ | | | | | |
| CM-17 | Mladen ULIĆEVIĆ, Jovan FURTULA, Ana PETRANOVIĆ EXTRADOSED BRIDGE OVER MORAČA RIVER IN PODGORICA - DESIGN AND CONSTRUCTION | | | | | |
| CM-6 | Goran MILUTINOVIĆ, Duško BOBERA COMPARATIVE ANALYSES OF BRIDGE PIER CAP USING STRUT-AND-TIE AND BEAM MODEL | | | | | |
| CM-15 | Elena STOKUCA, Marija STOKUCA TERZIEVSKA INSTALLATION OF STEEL TRANSVERSE BEAMS UNDER THE PYLON OF THE RHINE BRIDGE IN LEVERKUSEN | | | | | |
| CM-14 | Nenad STOJCHEVSKI, Jovana VELICHKOVA PROJECT FOR NEW BRIDGES OVER THE ELBE RIVER IN MAGDEBURG | | | | | |
| 0945-1045 | Parallel Session 4 (Platinum 1 Hall) Chair: Elena DUMOVA-JOVANOSKA and Marina RAKOČEVIĆ | | | | | |
| NES-11 | Marko MARINKOVIĆ, Christoph BUTENWEG, Aleksa MILIJAŠ, Matija GAMS ISOLATION OF INFILL WALLS AS A SOLUTION FOR BOTH MASONRY INFILLS AND RC STRUCTURES: EXPERIMENTAL INVESTIGATION | | | | | |
| CM-5 | Ivan MILIĆEVIĆ, Milica VIDOVIĆ, Jelena DRAGAŠ, Branko MILOSAVLJEVIĆ BEHAVIOUR AND DESIGN OF BOLTED CONNECTORS WITH MECHANICAL COUPLER: AN OVERVIEW | | | | | |
| NES-6 | Lisa JUSUFI, Leart TARAVARI, Borjan PETRESKI INVESTIGATING THE PROBABILISTIC SEISMIC RISK ASSESSMENT PRINCIPLES THROUGH A TYPICAL CASE STUDY | | | | | |
| RSC-6 | Kefajet EDIP, Roberta APOSTOLSKA SUSTAINABLE URBAN PLANNING THROUGH SEISMIC RISK ASSESSMENT - CASE STUDY KARPOSH | | | | | |
| RSC-13 | Zabedin NEZIRI, Radmila SALIC MAKRESKA COMPARATIVE ANALYSIS OF AVAILABLE EARTHQUAKE CATALOGS FOR THE TERRITORY OF NORTH MACEDONIA AND THE BORDER REGION | | | | | |

| | Friday, September, 29 th , 2023 | | | | | |
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| 09 ⁴⁵ -10 ⁴⁵ | Parallel Session 4 (Platinum 2 Hall) | | | | | |
| | Chair: Todorka SAMARDZIOSKA and Daniel CEKOV Nikola PETROV, Nurzhan SATUOV, Radmila SALIC MAKRESKA | | | | | |
| NES-16 | UTILIZING AMBIENT NOISE TO EVALUATE POTENTIAL RESONANT CONDITIONS IN SEISMIC EVENTS: A CASE STUDY OF NOVO LISICHE, SKOPJE | | | | | |
| MMT-1 | Hassan AWADAT SALEM DEVELOPMENT OF PAVEMENT TEMPERATURE REGRESSION MODELS AT BRAK, LIBYA | | | | | |
| MMT-7 | Marija MIHAJLOVIĆ, Ljiljana STOŠIĆ MIHAJLOVIĆ GREEN CONSTRUCTION AND GREEN CIRCULAR ECONOMY | | | | | |
| MMT-17 | Stojanche STOJANOV, Ljubomir TRAJCHEV WATERPROOFING OF CONCRETE BRIDGES WITH POLYMER-MODIFIED BITUMINOUS MEMBRANES | | | | | |
| MMT-2 | Olivera BUKVIĆ, Mirjana MALEŠEV, Marijana SERDAR, Suzana DRAGANIĆ, Vlastimir RADONJANIN FEASIBILITYOF USING SUNFLOWER HUSK ASH AS AN ALTERNATIVE ACTIVATOR FOR ALKALI- ACTIVATED SLAG | | | | | |
| 10 ⁴⁵ - 11 ⁰⁰ | Coffee break | | | | | |
| 11 ⁰⁰ -11 ³⁰ | Invited speakers (Diamond Hall) Chair: Sergey CHURILOV and Branko MILOSAVLJEVIĆ | | | | | |
| IP-3 | Eleni CHATZI AUGMENTED TWINS: PHYSICS AND DATA IN SUPPORT OF VIRTUALIZING STRUCTURAL SYSTEMS | | | | | |
| 11 ³⁰ -11 ⁴⁵ | Presentation of sponsors (Diamond Hall) Chair: Sergey CHURILOV and Branko MILOSAVLJEVIĆ | | | | | |
| SS-1 | Silver Sponsor: KNAUF | | | | | |
| SS-2 | Silver Sponsor: MASON | | | | | |
| SS-3 | Silver Sponsor: WB&E | | | | | |
| 11 ⁴⁵ -12 ⁴⁵ | Parallel Session 5 (Diamond Hall) Chair: Sergey CHURILOV and Branko MILOSAVLJEVIĆ | | | | | |
| MRS-7 | Predrag POPOVIC ASSESSMENT AND REHABILITATION OF COLLAPSED FIRE DAMAGED CONCRETE STRUCTURES | | | | | |
| MRS-8 | Boško STEVANOVIĆ, Ivan GLIŠOVIĆ, Dragoljub TODOROVIĆ PALACE OF GOLUBAC FORTRESS | | | | | |
| SHM-4 | Mirjana LABAN, Sandra NEDELJKOVIĆ, Željko ŽUGIĆ, Miloš KNEŽEVIĆ POST DISASTER NEEDS ASSESSEMENT METHODOLOGY | | | | | |
| RSC-12 | Sandra NEDELIKOVIĆ, Zeljko ZUGIĆ, Mirjana LABAN, Zdravko MAKSIMOVIĆ RISK REGISTER AS A BASIS FOR SUSTAINABLE PUBLIC INVESTMENTS STRATEGY IN REPUBLIC OF SERBIA | | | | | |

| | Friday, September, 29 th , 2023 |
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| -12 ⁴⁵ | Parallel Session 5 (Diamond Hall) |
| -12-3 | Chair: Sergey CHURILOV and Branko MILOSAVI IEVIC |

| 11 ⁴⁵ -12 ⁴⁵ | Parallel Session 5 (Diamond Hall) | | | | |
|------------------------------------|---|--|--|--|--|
| | Chair: Sergey CHURILOV and Branko MILOSAVLJEVIĆ Suzana DRAGANIC, Mirjana LABAN, Igor DŽOLEV, Meri CVETKOVSKA | | | | |
| RSC-5 | FIRE RESILIENCE AND BUILDINGS' SUSTAINABILITY IN RENOVATION WAVE | | | | |
| | Parallel Session 5 (Platinum 1 Hall) | | | | |
| 11 ⁴⁵ -12 ⁴⁵ | Chair: Ana TROMBEVA GAVRILOSKA and Igor PESKO | | | | |
| | Novak JOKSIMOVIC, Ljiljana BRAJOVIC | | | | |
| SHM-3 | CHALLENGES AND POTENTIAL OF FIBER OPTIC SENSORS FOR STRUCTURAL HEALTH | | | | |
| | MONITORING OF BRIDGES: A REVIEW | | | | |
| BIM-2 | Sonja CHEREPNALKOVSKA, Dijana LIKAR | | | | |
| DIIVI-Z | DIGITALIZATION IN CONSTRUCTION -BIM TECHNOLOGY | | | | |
| BIM-5 | Teodora PANAJOTOVIKJ, Silvija PETRESKA, Boban BOJCHEVSKI, Boris TASEVSKI | | | | |
| 5 5 | IMPLEMENTATION OF 3D MODELING (BIM) FROM DESIGN TO EXECUTION | | | | |
| | Nenad KRSTIVOJEVIĆ | | | | |
| MRS-5 | DESIGN AND SUPERVISION ON THE CONSERVATION WORKS ON THE | | | | |
| | REHABILITATION OF THE RESIDENCE GEORGIJEVIC Riste VOLCHEV, Nikola POSTOLOV, Koce TODOROV, Ljupcho LAZAROV | | | | |
| SHM-5 | OVERVIEW OF THE DAMAGES TO THE AQUEDUCT IN SKOPJE | | | | |
| | Parallel Session 5 (Platinum 2 Hall) | | | | |
| 11 ⁴⁵ -12 ⁴⁵ | Chair: Vladimir VITANOV and Igor DŽOLEV | | | | |
| | Isidora JAKOVLJEVIĆ, Milan SPREMIĆ, Zlatko MARKOVIĆ | | | | |
| NES-4 | CONCRETE MODELING IN FINITE ELEMENT PUSH-OUT TEST SIMULATIONS | | | | |
| CM-7 | Jelena MIRJANIĆ, Vladimir ŽIVALJEVIĆ, Igor DŽOLEV, Andrija RAŠETA | | | | |
| CIVI-7 | INFLUENCE OF NON-LINEAR MATERIAL MODELS ON SEISMIC RESPONSE OF RC BUILDING | | | | |
| | Leart TARAVARI, Koce TODOROV | | | | |
| NES-29 | COMPARATIVE ANALYSES OF VARIOUS NONLINEAR MODELLING APPROACHES OF | | | | |
| | REINFORCED CONCRETE FRAMES | | | | |
| CM-16 | Bojan SUSINOV, Josif JOSIFOVSKI, Sead ABAZI PILE BEARING CAPACITY CALCULATION USING RESULTS FROM STATIC AND DYNAMIC | | | | |
| CIVI-10 | LOAD TESTS ACCORDING TO EUROCODE 7 | | | | |
| | Anita GJUKAJ, Petar CVETANOVSKI, Ana Trombeva GAVRILOSKA | | | | |
| NES-2 | NUMERICAL ANALYSIS OF EXTENDED END-PLATE BOLTED CONNECTION | | | | |
| 12 ⁴⁵ -13 ⁴⁵ | Buffet lunch (Foyer in front of Platinum Halls) | | | | |
| | Invited speakers (Diamond Hall) | | | | |
| 13 ⁴⁵ -14 ⁴⁵ | Chair: Goran MARKOVSKI and Vlastimir RADONJANIN | | | | |
| | Marco NOVARIN | | | | |
| IP-7 | RESILIENT BRIDGES IN SEISMIC AREAS | | | | |

Peter MARK, Patrick FORMAN, Jannik HOPPE

IP-6

STRUCTURES

SUSTAINABLE CONCRETE ENGINEERING - STRATEGIES FOR EXISTING AND NEW

| | Friday, September, 29 th , 2023 | | | | |
|------------------------------------|---|--|--|--|--|
| | Presentation of sponsors (Diamond Hall) | | | | |
| 14 ⁴⁵ -15 ⁰⁰ | Chair: Goran MARKOVSKI and Vlastimir RADONJANIN | | | | |
| SS-5 | Silver Sponsor: STRABAG | | | | |
| SS-6 | Silver Sponsor: GIM | | | | |
| SS-7 | Silver Sponsor: STOKUCA | | | | |
| 1500-1600 | Parallel Session 6 (Diamond Hall) | | | | |
| 1510 | Chair: Goran MARKOVSKI and Vlastimir RADONJANIN | | | | |
| NES-3 | Vladimir GOCEVSKI EVALUATION OF HYDROELECTRIC POWERHOUSES FOUNDED ON ALKALI-AGGREGATE REACTION (AAR) AFFECTED CONCRETE | | | | |
| MMT-8 | Tiana MILOVIĆ, Mirjana MALEŠEV, Ivan LUKIĆ, Vesna BULATOVIĆ, Vlastimir RADONJANIN MECHANICAL, PHYSICAL AND DEFORMATION PROPERTIES OF REPAIR CEMENT- BASED MORTARS CONTAINING ZEOLITE | | | | |
| CM-9 | Nenad PECIĆ, Saša STOŠIĆ, Snežana MAŠOVIĆ, Dragan MAŠOVIĆ SHEAR DESIGN OF CIRCULAR CONCRETE SECTIONS ACCORDING TO THE EC2 TRUSS MODEL | | | | |
| MMT-16 | Irina STEFANOVSKA STIMULATED AUTOGENOUS SELF-HEALING OF CEMENT MATERIALS USING FLY ASH AND CRYSTAL FORMING ADDITIVES | | | | |
| ММТ-9 | Stefan Ž. MITROVIĆ, Ivan IGNJATOVIĆ HARDENED PROPERTIES OF 3D PRINTED CONCRETE – EXPERIMENTAL INVESTIGATION | | | | |
| 15 ⁰⁰ -16 ⁰⁰ | Parallel Session 6 (Platinum 1 Hall) Chair: Zlatko MARKOVIĆ and Mile PARTIKOV | | | | |
| NES-13 | Primož MOŽE LOAD-DEFORMATION BEHAVIOR OF BOLTED BEARING-TYPE CONNECTIONS | | | | |
| NES-26 | Petar SUBOTIĆ, Duško LUČIĆ THE PATH TO AN ANALYTICAL SOLUTION FOR ELASTIC CRITICAL LATERAL TORSIONAL BUCKLING MOMENT FOR I BEAMS WITH BATTEN PLATES | | | | |
| NES-19 | Denis POPOVSKI, Mile PARTIKOV, Ditar MEMEDI EVALUATION OF THE BEHAVIOUR FACTOR FOR COMPOSITE STEEL-CONCRETE MOMENT FRAMES USING NONLINEAR STATIC ANALYSIS | | | | |
| NES-18 | Denis POPOVSKI, Mile PARTIKOV, Ditar MEMEDI ANALYSIS OF STEEL MOMENT FRAME USING NONLINEAR STATIC ANALYSIS | | | | |
| NES-28 | Leart Taravari, Denis Popovski, Mile Partikov Comparative Analyses of the Design Seismic Behavior of Characteristic Steel Frames | | | | |

| ANI, Muhamet AHMETI FAKIS DURABILITY FOR | Mirjana MALESE ECUR, Bojan MILO OF EXPANDED POI | VANOVIĆ LYSTYRENE INSULA | TION AND | | | | | |
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| FAKIS D DURABILITY FOR | Driton KRYEZIU, I | liberato FERRARA | ITS USE IN BUILDINGS Visar KRELANI, Muhamet AHMETI, Driton KRYEZIU, Liberato FERRARA, Theodor | | | | | |
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| | BIĆ, Aleksandar R | ADEVIĆ, Aleksand | ar SAVIĆ, | | | | | |
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| | SLUDGE AS PARTIA | L REPLACEMENT O | F CEMENT | | | | | |
| | Ć Ivan GLIŠOVIĆ | | | | | | | |
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| | mercies mederci | WELS WINDE THOM | LOCALLI | | | | | |
| Coffee break | | | | | | | | |
| 115-16 ⁴⁵ Invited speakers (Diamond Hall) | | | | | | | | |
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| FUTURE EUROPEAN STANDARDS FOR THE DETERMINATION OF GENERAL | | | | | | | | |
| ACTIONS FOR THE DESIGN OF STRUCTURES | | | | | | | | |
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| | ERIAL-BASED LIGHTWEIGHT DO DJKOVIĆ, Marina AŠKRA ZAKIĆ D WASTE WATER TREATED TEE COMPOSITES TOOROVIĆ, Nađa SIMOVI BEHAVIOUR OF CROSS LAN SPRUCE WOOD TEAK PEAKERS (Diamond Ha SIST JOSIFOVSKI and Pri ÖFFER EUROPEAN STANDARDS FOR THE DESIGN OF STRU SESSION 7 (Diamond H SIST JOSIFOVSKI and Pri OLIĆ, Zoran BRUJIĆ DENCIES IN DESIGNING D CEV, Danijela ĐURIĆ MIJIO DF WIND ACTION ON CON JTINOVIĆ, RAGE HAJDIN, IVAI V OF BRIDGE TRAFFIC LO EV, TONI ARANGJELOVSKI, I BEHAVIOUR OF CB BRI BEHAVIOUR OF RC BRII BEHAVIOUR OF RC BRII AL AND ANALYTICAL APP SESSION 7 (Platinum 1 TOTAN RAKICEVIC AND DISTRIBUTION ON CON DIAMON OF TOOR ON TOOR DESTANDAN SESSION 7 (Platinum 1 DIAMON OF TOOR ON TOOR DIAMON OF TOOR ON TOOR DIAMON OF TOOR DI | ERIAL-BASED LIGHTWEIGHT DOUBLE WALL FOR LOW DJKOVIĆ, Marina AŠKRABIĆ, Aleksandar R. ZAKIĆ O WASTE WATER TREATED SLUDGE AS PARTIA TE COMPOSITES IDOROVIĆ, Nađa SIMOVIĆ, Ivan GLIŠOVIĆ BEHAVIOUR OF CROSS LAMINATED TIMBER PASPRUCE WOOD reak peakers (Diamond Hall) sif JOSIFOVSKI and Primoz MOZE ÖFFER EUROPEAN STANDARDS FOR THE DETE FOR THE DESIGN OF STRUCTURES SESSION 7 (Diamond Hall) sif JOSIFOVSKI and Primoz MOZE OLIĆ, Zoran BRUJIĆ DENCIES IN DESIGNING DURABILITY OF CONCEV, Danijela BURIĆ MIJOVIĆ, MIJOŠ MILIĆ DF WIND ACTION ON CONTAINER STACKS ACC JTINOVIĆ, Rade HAJDIN, Ivana ANDRIJANIC, MIJO V OF BRIDGE TRAFFIC LOADS IN SERBIA USI EV, TONI ARANGJELOVSKI, Darko NAKOV, Gora BEHAVIOUR OF RC BRIDGES UNDER MOV AL AND ANALYTICAL APPROACH SESSION 7 (Platinum 1 Hall) UTAN RAKICEVIC AND VIADIMIT VUKOBRA DISHI, GOIUBKA NECHEVSKA-CVETANOVSKA, | ERIAL-BASED LIGHTWEIGHT DOUBLE WALL FOR LOW FREQUENCY NOISE R DJKOVIĆ, Marina AŠKRABIĆ, Aleksandar RADEVIĆ, Aleksand ZAKIĆ O WASTE WATER TREATED SLUDGE AS PARTIAL REPLACEMENT O TE COMPOSITES TOOROVIĆ, Nada SIMOVIĆ, Ivan GLIŠOVIĆ BEHAVIOUR OF CROSS LAMINATED TIMBER PANELS MADE FROM SPRUCE WOOD TEAK PEAK PEAKES (Diamond Hall) SIST JOSIFOVSKI and Primoz MOZE ÖFFER EUROPEAN STANDARDS FOR THE DETERMINATION OF FOR THE DESIGN OF STRUCTURES SESSION 7 (Diamond Hall) SIST JOSIFOVSKI and Primoz MOZE FOLIĆ, ZORAN BRUJIĆ DENCIES IN DESIGNING DURABILITY OF CONCRETE STRUCTURE SCESSION TO SISTEMA SIN SERBIA DISING TO EC STA JTINOVIĆ, RAGE HAIDIN, Ivana ANDRIJANIC, MIIOS MILIĆA, ANDRIJAVIEVIC, M V OF BRIDGE TRAFFIC LOADS IN SERBIA USING B-WIM EV, TONI ARANGJELOVSKI, DARKO NAKOV, GORAN MARKOVSKI, PEKE BEHAVIOUR OF RC BRIDGES UNDER MOVING LOADS: A SI AL AND ANALYTICAL APPROACH | | | | | |

| Friday, September, 29 th , 2023 | |
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| 16 ⁴⁵ -17 ⁴⁵ | Parallel Session 7 (Platinum 1 Hall) Chair: Zoran RAKICEVIC and Vladimir VUKOBRATOVIC |
| NES-15 | Luka NAUMOVSKI, Boris AZINOVIĆ, Tomaž PAZLAR, Matija GAMS PUSHOVER-BASED FRAGILITY ANALYSIS OF MULTI-STOREY CROSS-LAMINATED TIMBER PLATFORM-TYPE BUILDINGS |
| NES-20 | Nikola POSTOLOV, Riste VOLCHEV, Kristina MILKOVA, Koce TODOROV, Elena DUMOVA-JOVANOSKA SEISMIC VULNERABILITY OF OPEN GROUND FLOOR RC FRAMES WITH MASONRY INFILL |
| NES-27 | Leart TARAVARI, Lisa JUSUFI, Borjan PETRESKI, Koce TODOROV PERFORMANCE-BASED ANALYSIS OF A MULTI-STORY AND MULTI-BAY REINFORCED CONCRETE FRAME |
| NES-8 | Toni KITANOVSKI, Vlatko SHESOV, Julijana BOJADJIEVA, Kemal EDIP, Dejan IVANOVSKI EFFECTS OF PRE-EXISTING CYCLIC LOADING ON TRIAXIAL MONOTONIC BEHAVIOR |
| 17 ⁴⁵ -19 ¹⁵ | Round table: Current state and trends in structural engineering |
| 19 ¹⁵ -19 ³⁰ | Closing of the Symposium |
| 2100-0100 | MASE Closing party (Tribeca Restaurant & Bar) Music: The Ringtones (21 ⁰⁰ -23 ⁰⁰) The Hounds (23 ⁰⁰ -01 ⁰⁰) Dress code: Casual/MASE T-shirt (Included: Buffet dinner and Welcome cocktail drink) |
| | Saturday, September, 30 th , 2023 |
| Excursion | Technical visit of Ljubljanska Bridge and touristic visit of Canyon Matka (Supported by ADING and GRANIT) Dress code: Sport/Sport shoes |
| 1000-1030 | Bus transport: Hotel Hilton – Ljubljanska Bridge |
| 10 ³⁰ -11 ³⁰ | Site visit of Ljubljanska Bridge |
| 11 ³⁰ -12 ⁰⁰ | Bus transport: Ljubljanska Bridge – Canyon Matka |
| 12 ⁰⁰ -13 ³⁰ | Visit of Canyon Matka |
| 13 ³⁰ -15 ³⁰ | Lunch |
| 15 ³⁰ -16 ⁰⁰ | Bus transport: Canyon Matka - Hotel Hilton |

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