THE INTERNATIONAL CONFERENCE SYNERGY OF ARCHITECTURE & CIVIL ENGINEERING SINARG 2023

AGENDA



Niš (SERBIA) - Science & Technology Park Niš - September 14-15, 2023







LEGEND OF THE LOCATIONS:

- Unversity of Niš, Univerzitetski trg 2, Niš, Serbia Multimedial Hall (no. 8) [UNI]
- FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, ALEKSANDRA MEDVEDEVA 14, NIŠ, SERBIA CEREMONIAL HALL [GAF]
- FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, ALEKSANDRA MEDVEDEVA 14, NIŠ, SERBIA CLASSROOM 205 [205]
- FACULTY OF CIVIL ENGINEERING AND ARCHITECTURE, ALEKSANDRA MEDVEDEVA 14, NIŠ, SERBIA LABORATORY OF INFORMATICS [LAB]
- SCIENCE TECHNOLOGY PARK NIS, ALEKSANDRA MEDVEDEVA 2A, NIS, SERBIA CONFERENCE CENTER INTPI

THE ORGANISATION OF THE INTERNATIONAL CONFERENCE SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023 HAS BEEN SUPPORTED BY THE MINISTRY OF SCIENCE, TECHNOLOGICAL DEVELOPMENT AND INNOVATION, REPUBLIC OF SERBIA



SINARG 2023 - AGENDA

WEDNESDAY 13TH SEPTEMBER

LOCATION

SCHEDULE

COLLEGE	TILDHILDS N. 13 GENTEMBER	2007.111011
18:00 – 20:00	LITERARY EVENING - ZORAN PREDIN	UNI
SCHEDULE	Thursday 14 th September	LOCATION
09:00 – 10:00	REGISTRATION OF CONFERENCE PARTICIPANTS	NTP
10:00 – 10:15	OPENING CEREMONY	NTP
	Professor Slaviša Trajković , PhD, Dean, Faculty of Civil Engineering and Architecture, University of Niš, Serbia	
	Associate Professor Vuk Milošević, PhD, Faculty of Civil Engineering and Architecture, University of Niš, Serbia	
	Milan Ranđelović, PhD, CEO, Science Technology Park Niš, Serbia Academician Dušan Teodorović, PhD, Serbian Academy of Sciences and Arts, Belgrade, Serbia	
10:15 – 11:15	INVITED LECTURES	NTP
10:15 – 10:45	Academician Dušan Teodorović, PhD, Serbian Academy of Sciences and Arts, Belgrade, Serbia	
	URBAN TRAFFIC CONGESTION: CAUSES AND POSSIBLE SOLUTIONS	
10:45 – 11:15	Senior Lecturer Milena Metalkova-Markova, PhD, University of Portsmouth, Portsmouth, United Kingdom	
	THE WAY OF BEAUTY- ARCHITECTURE AS A QUASI-OBJECT BETWEEN CONSUMPTIC AND SUSTAINABILITY	
11:15 – 12:00	SPONSOR PRESENTATIONS	NTP
	Platinum Plus Sponsor / Put Inženjering Niš / Platinum Sponsors / Građevinska direkcija Srbije Beograd /	
	/ Project Biro UTIBER Novi Sad /	
	Golden Sponsors / Kapaprojekt Niš / / Inženjerska komora Srbije /	
12:00 – 12:15	REFRESHMENT BREAK	NTP
12:15 – 13:45	INVITED LECTURES	NTP
12:15 – 12:45	Professor Hartmut Pasternak, PhD, Brandenburg University of Technology, Cottbus, Germa	any
	APPLICATION OF ADHESIVLY BONDED CFRP FOR REINFORCEMENT AND REHABILITATION OF FATIGUE DAMAGED STEEL STRUCTURE - ONLY A NICE IDEA?	
12:45 – 13:15	Professor Beatrice-Gabriela Jöger, PhD, Ion Mincu University of Architecture and Urbanism	1,
	Bucharest, Romania ARCHITECTURE AND TEXTILES - A MILLENNIAL STORY	
13:15 – 13:45	Associate Professor Michael Tritthart, PhD, University of Natural Resources and Life	
	Sciences, Vienna, Austria INTEGRATED RIVER RESTORATION DESIGN BASED ON HYDRODYNAMIC AND	
	MORPHODYNAMIC CHARACTERISTICS	
13:45 – 14:15	Mini concert - Zoran Predin	NTP
14:15 – 15:00	SPONSOR PRESENTATIONS	NTP
	Silver Sponsors / Arhibet Niš / / Apokrifi Niš /	
	/ Tončev Gradnja Surdulica /	
	/ GEBERIT Beograd / / Moravacem D.O.O. Popovac /	
15:00 – 16:00	LUNCH BREAK	NTP

SCHEDULE	THURSDAY 14TH SEPTEMBER LC	CATION
<u>16:00 – 19:30</u>	CONCURRENT SESSIONS LAB / NT	P/GAF
16:00 – 17:00	SPECIAL SESSION "WEF NEXUS CURRENT STATE AND FUTURE PERSPECTIVES" [COST ACTION CA20138]	LAB
16:00 – 16:20	CHAIRS: MILAN GOCIĆ, GIANNIS ADAMOS RE-SHAPING WATER-ENERGY-FOOD NEXUS APPROACHES FOR A LOW-CARBON ECON EUROPE AND BEYOND: THE NEXUSNET COST ACTION Giannis Adamos	NOMY IN
16:20 – 16:40	THE IMPORTANCE OF THE NEXUS GOVERNANCE FOR ACHIEVING SDGS Tamara Rađenović, Dejan Vasović, Žarko Vranjanac, Snežana Živković, Slobodan Milutinović DEVELOPING THE DATABASE OF WEFE NEXUS PROJECTS AND CASE STUDIES	
16:40 – 17:00	Žarko Vranjanac, Stefania Munaretto, Alexandra Spyropoulou, Tamara Radenović, Dejan Snežana Živković	Vasović,
16:00 – 18:00	CONCURRENT SESSION - ARCHITECTURE	NTP
16:00 – 16:10	CHAIRS: MILENA DINIĆ BRANKOVIĆ, VIKTORIJA MANGAROSKI, EMINA HADŽIĆ THERMAL VISION BASED EVALUATION OF TRADITIONAL ARCHITECTURE BUILDING'S E EFFICIENCY IN THE STARA PLANINA REGION Jelena Stevanović, Ana Stanojević, Ljiljana Jevremović, Miomir Vasov, Branko Turnšek, Dragan	Kostić
16:10 – 16:20	ANALYSIS OF THE CONCEPT OF BUILDING INTEGRATED PHOTOVOLTAICS WITH INTEG TO THE ARCHITECTURAL DESIGN Viktorija Mangaroska, Kosta Mangaroski	RATION
16:20 – 16:30	REUSE AND ENVIRONMENTAL IMPACTS OF TREATED DOMESTIC WASTEWATER Muhammed Kamil Oden, Bilgehan Yabgu Horasan, Cemalettin Saricoban, Ali Ozdoner	
16:30 – 16:40	BIOPHILIC DESIGN PRINCIPLES IN WORKPLACE Stela Skrizhovska-Koleva	
16:40 – 16:50	EVALUATING URBAN VOIDS IN URBAN VILLAGES: A STUDY OF URBAN VOIDS IN HUMA' VILLAGE Anupma Goel	YUNPUR
16:50 - 17:00	Discussion	
17:00 – 17:10	NATURAL AND TECHNOLOGICAL HAZARDS – LIMITING FACTORS IN URBAN AND SPLANNING Milorad Jovanovski, Igor Peshevski, Lidija Trpenovska, Andrijana Andreeva, Julijana Stavrevski	SPATIAL
17:10 – 17:20	PERSPECTIVES FOR THE RECONSTRUCTION OF THE SITE AND THE UNDERGROUNDS DIMITROV MAUSOLEUM Alexandra Ivanova	OF THE
17:20 – 17:30	IMPORTANCE OF INNOVATION COMPETENCE-BASED CURRICULA IN CLIMATE-SMART DEVELOPMENT BASED ON GREEN AND ENERGY EFFICIENCY FOR THE WESTERN REGION Emina Hadžić, Milan Gocić, Marija Jevrić	
17:30 – 17:40	POSSIBILITIES OF ABSENTEE LEARNING IN ARCHITECTURAL DESIGN Nikolay Istatkov	
17:40 – 17:50	ACTIVE MOBILITY AS AN ALTERNATIVE FOR THE DAILY COMMUTE. ISSUES AND CHANC THE CITY OF VARNA Peter Nikolov	ES FOR
17:50 - 18:00	Discussion	
18:00 – 18:10	REFRESHMENT BREAK	NTP
18:10 – 19:20	CONCURRENT SESSION - ARCHITECTURE	NTP
18:10 – 18:20	CHAIRS: BRANISLAVA STOJILJKOVIC, DIMITRIS GRIGORIOU ARTS AND ARCHITECTURAL COLLABORATIONS IN ATHENS OF THE SIXTIES (60S) Dimitris Grigoriou	
18:20 – 18:30	ARCHITECTURE – THE MOST INFLUENTIAL ART Dragan Žunić	
18:30 – 18:40	ARCHITECTURAL GRAPHICS - ANCIENT ORIGINS Vladan Nikolić, Olivera Nikolić, Jasmina Tamburić, Sanja Spasić Đorđević, Ana Momčilović Petro	niiević
18:40 – 18:50	THE COLORFUL FACADE DECORATIONS OF THE SECESSION STYLE IN SOFIA. SOFIA METHOD THE RECOVERING OF MISSING ELEMENTS Blagovesta Ivanova	

18:50 – 19:00 EXTENDING THE LIFE OF RESIDENTIAL BUILDINGS THROUGH ADAPTATION: A CASE STUDY OF NIS, SERBIA NIS, SERBIA PRIVATE STUDY ON ARCHITECTURAL ORGANIZATION OF MEDIUM-SIZED APARTMENTS IN NEW CONSTRUCTION IN SERBIA NIL ORGANIZATION OF MEDIUM-SIZED APARTMENTS IN NEW CONSTRUCTION IN SERBIA NIL ORGANIZATION OF MEDIUM-SIZED APARTMENTS IN NEW CONSTRUCTION IN SERBIA NIL ORGANIZATION OF MEDIUM-SIZED APARTMENTS IN NEW CONSTRUCTION IN SERBIA OLDER DIVIDED TO THE PRIVATE STUDY ON ARCHITECTURAL EDUCATION IN THE REPUBLIC OF SERBIA OLDER DIVIDED TO THE PRIVATE STUDY ON ARCHITECTURAL EDUCATION IN THE REPUBLIC OF SERBIA OLDER DIVIDED TO THE PRIVATE SERVICE OF CHARGE SERVICE OF SERVICE OF CHARGE SERVICE OF CHARGE SERVICE OF CHARGE SERVICE OF SERVICE OF CHARGE SERVICE OF SERVIC			
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18:50 – 19:00 19:00 – 19:10 19:00 – 19:10 19:10 – 19:20 19:10 – 19:20 19:20 – 19:30 19:20 – 19:30 16:00 – 18:00 CONCURRENT SESSION – CIVIL ENGINEERING GAF CHAIRS: ELEFTERIJA ZLATANOVIĆ, CHARALAMPOS SKOULIKARIS 6EOTECHNICAL CONDITIONS IN EXPERIMENTAL TESTING OF CLAYEY SOIL SUBJECTED TO CHEMICAL ELECTROKINETIC TREATMENT Zoran Bonić, Elefterija Zlatanović, Nemanja Marinković, Snežana Dorić-Veljković, Dragan Doridević, Nikola Romić, Branimi Stanković 16:10 – 16:20 RIVER TRAINING WORKS WITH THE AIM OF FLUVIAL PROCESSES CONTROL THROUGH THE SEDIMENT TRANSPORT AND DEFORMATION OF THE RIVER BED ANALYSIS Aleksandra Ilić. Ilija Ilić. Dragan Radivojević. Borko Radivojević. 16:30 – 16:40 QUANTITATIVE CHARACTERISTICS OF HIGH INTENSITY RAINFALL IN THE VINCINITY OF THE CITY OF NIS Slevan Prohaska, Aleksandra Ilić. Ilija Ilić. Ognjen Prohaska, Vladislava Bartoš Divac Characteringos Skoulikaris, Eleni Zanou 16:40 – 16:50 16:50 – 17:00 16:50 – 17:00 Discussion 17:00 – 17:10 SIGNIFICANCE OF NUMERICAL SIMULATION OF SOIL MEDIA IN SSI ANALYSIS OF FRAMES Kemal Edip, Vlatko Sheshov, Julijana Bojadijeva, Toni Klanovski, Dejan Ivanovski Nemanja Marinković, Elefterija Zlatanović, Zoran Bonić, Nikola Romić, Dejan Nanovski Nemanja Marinković, Elefterija Zlatanović, Zoran Bonić, Nikola Romić, Dejan Nanovski Nemanja Marinković, Elefterija Zlatanović, Zoran Bonić, Nikola Romić, Dušan Cvetković, Lazar Živković Narious Methods 17:30 – 17:40 Trico – 17:20 NROTATIONAL INNARIANCE OF NIGHER-CRIDER MOMENTS OF REGULAR POLYHEDRA Marton Modis, Florita Kovács 17:30 – 17:40 TRICON – 18:10 REFERSHMENT BREAK GAF CHARRS: RADOMIR FOLIĆ, Zoran Groić COMPARATIVO HADRATIONO I LABORATORY AND IN-STITU TEST RESULTS OF MECHANICAL AND DURABILITY CONCRETE PROPERTIES FOR STADIUM STRUCTURE Marko Geografic Such School Schoo	18:30 – 18:40	SEISMIC PERFORMANCE OF RC BUILDING COLUMNS CONFINED WITH CFRP	
18:50 – 19:00 18:50 – 19:00 19:00 – 19:10 19:00 – 19:10 19:00 – 19:10 19:00 – 19:10 19:01 – 19:20 19:01 – 19:20 10:01 – 19:20 10:01 – 19:20 10:01 – 19:20 10:00 – 19:30 10:00 – 19:30 10:00 – 19:30 10:00 – 19:30 10:00 – 18:00 10:00	18:20 – 18:30	Zoran Grdić, Nenad Ristić, Dušan Grdić, Gordana Topličić–Ćurčić, Dejan Krstić, Jelena Bijeljić LABORATORY TESTS OF CONCRETE CYLINDERS CONFINED WITH INOVATIVE MATERIALS	
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	18:50 – 19:00		OF

SCHEDULE		FRIDAY 15TH SEPTEMBER	LOCATION
09:00 – 10:45	INTER-PROJECT COA	CHING EVENT (HORIZON, COST, ERASMUS+, SERBIAN SCIENCE FUND,)	LAB
	CCWATER DIGIWATER INNOWAT WATERLINE ElectroSoil Substrate SMART4ENV SMARTWB DGTRANS SEACWater	THE EVENT WILL BE ORGANZED IN HYBRID MODE. CHAIRS: HARSHA RATNAWEERA, MILAN GOCIĆ Harsha Ratnaweera, Norwegian University of Life Sciences Harsha Ratnaweera, Norwegian University of Life Sciences Milan Gocić, University of Niš Vuk Milošević, University of Niš Elefterija Zlatanović, University of Niš Radovan Cvetković, University of Niš Zakhar Maletskyi, Norwegian University of Life Sciences Marija Jevrić, University of Montenegro Milan Protić, University of Niš Wang Xiaodong, Qingdao University of Technology	
11:00 – 12:00		TRIBUTE SESSION	205
	Speakers:	Moderator : Andrija Zorić Predrag Petronijević Darko Živković Andrija Zorić	
<u>09:00 – 12:30</u>		CONCURRENT SESSIONS + POSTER SESSION	NTP + GAF
09:00 - 10:30		CONCURRENT SESSION - ARCHITECTURE	NTP
09:00 – 09:10		AIRS: ANA MOMČILOVIĆ PETRONIJEVIĆ, VLADAN NIKOLIĆ RCHITECTURE TRENDS - NEW CLOCKWORK ORANGE CHALLENGE	
09:10 – 09:20	THE INFLUENCE OF GENERATIVE DESIGN ON THE PROCESS OF ARCHITECTURAL SPACE PLANNING Jovana Tomić, Sonja Krasić, Nastasija Kocić		
09:20 - 09:30	MERSI – FROM BASIC NEEDS TO INCLUSIVE DESIGN FOR ROMANIAN SPECIAL SCHOOLS Oana Mihaescu, Alexandra Vişan, Silvia Paduraru, Ioana Şerbanescu		
09:30 – 09:40	INTEGRATING SUSTAINABILITY ASSESSMENT INTO ARCHITECTURAL EDUCATION. CASE STUDY FOR THE 5TH YEAR STUDENTS, FACULTY OF ARCHITECTURE, BUCHAREST, ROMANIA Oana Mihăescu, Radu Pană, Andreea Prelipcean, Alexandra Vişan		
09:40 - 09:50	APPLICATION OF THE CONCEPT OF BIOCLIMATIC DESIGN AND PLANNING OF FACILITIES IN CITIES TO PREVENT POLLUTANTS EMISSIONS Marija Mihajlović, Miomir Vasov, Tamara Janković, Natalija Mratinković		
09:50 - 10:00	Discussion		
10:00 – 10:10	OF THE MUNICIPA Ana Momčilović Pe	OF THE REVITALIZATION MODEL OF DEPOPULATED VILLAGES ON TH ALITY OF CRNA TRAVA – PART I etronijević, Olivera Nikolić, Mirko Stanimirović, Marko Joksimović, Vladan N OF THE REVITALIZATION MODEL OF DEPOPULATED VILLAGES ON TH	Nikolić
10:10 – 10:20	OF THE MUNICIPA	ALITY OF CRNA TRAVA – PART II etronijević, Olivera Nikolić, Mirko Stanimirović, Marko Joksimović, Vladan N	
10:20 – 10:35	Discussion	_	
10:35 – 11:00		REFRESHMENT BREAK	NTP
11:00 – 12:20		CONCURRENT SESSION - ARCHITECTURE	NTP
11:00 – 11:10	FACADE WALL OF Stefan Novčić, Dia Todorović	CHAIRS: MIOMIR VASOV, NADJA KURTOVIĆ FOLIĆ DETERMINATION OF DYNAMIC PARAMETERS OF HEAT PASSAGE THI F A WEEKEND COTTAGE ON MOUNTAIN KOPAONIK, SERBIA INA Vranešević, Aleksandra Parezanović, Ivana Medarević, Radovan Gos	pavić, Goran
11:10 – 11:20	INVESTIGATION (PREDICT REVER) Predrag Radomiro		ORDER TO
11:20 – 11:30	TOWARDS NUM MORPHOLOGY B	ERICAL ARCHITECTURAL ORDER IDENTIFICATION: EXPRESSIN Y USING DYNAMICS OF ITS PARAMETERS orde Dordević, Mirjana Devetaković, Gordana Đukanović	G CAPITAL

11:30 – 11:40	COOPERATION BETWEEN ARCHITECTS AND STRUCTURAL ENGINEERS IN THE DESIGN OF COMPLEX STRUCTURES – THE REVIEW
11:40 – 11:50	Miloš Čokić, Ružica Kovačević, Radomir Folić, Nađa Kurtović Folić THE USE OF "GEOTEXTILES" FOR THE PROTECTION OF ARCHAEOLOGICAL SITES WITH MOSAICS
11:50 – 12:00	Elena Vasić Petrović REFURBISHING INNOVATIVE STRUCTURES: THE CASE OF ROMANIAN SPORTS HALLS Ruxandra Balcanu
12:00 – 12:10	SOME SIGNIFICANT ACHIEVEMENTS OF CONCRETE STRUCTURES Nađa Kurtović Folić, Radomir Folić, Miloš Čokić
12:10 – 12:20	Discussion
09:00 - 10:45	CONCURRENT SESSION - CIVIL ENGINEERING GAF
09:00 – 09:10	CHAIRS: MILAN STOJKOVIĆ, VUK MILOŠEVIĆ, DUŠAN RANĐELOVIĆ BIAS CORRECTION OF CLIMATE DATA BY THE QUANTILE MAPPING FOR TWO RIVER CATCHMENTS IN THE JUŽNA MORAVA RIVER BASIN Nikola Đokić, Borislava Blagojević
09:10 – 09:20	BIAS CORRECTION AND WEIGHTING METHODS TO SHAPE PRECIPITATION UNDER THE CLIMATE CHANGE OPTIONS
09:20 - 09:30	Luka Vinokić, Milan Stojković, Srđan Kolaković COMPARISON OF DAILY AND MONTHLY REFERENCE EVAPOTRANSPIRATION IN AN URBAN AREA Mladen Milanović, Slaviša Trajković, Milan Gocić, Martina Zelenakova, Hany F. Abd-Elhamid
09:30 - 09:40	ENSURING OF THE FINANCIAL RISKS IN BUILDING OF A CONSTRUCTION PROJECT Tatjana Ackovska
09:40 - 09:50	DAMAGE FORMS OF STEEL CONSTRUCTIONS Marko Milošević, Dragoslav Stojić, Srđan Živković
09:50 - 10:00	Discussion
10:00 - 10:10	DEFLECTIONS OF BARREL VAULT SHAPED MEMBRANE MODEL UNDER EXTERNAL LOADS
10:10 – 10:20	Vuk Milošević, Dragan Kostić, Miomir Vasov, Dušan Ranđelović, Janusz Marchwiński DETERMINATION OF THE BOLT YIELD MOMENT FOR STEEL-TIMBER COMPOSITE CONNECTIONS
10:20 – 10:30	Miloš Milić, Todor Vacev, Ivan Nešović, Predrag Petronijević, Andrija Zorić SHEAR STRENGTH OF SELF-COMPACTING STEEL FIBER REINFORCED CONCRETE PUSH-OFF SPECIMENS
	Miloš Milić, Todor Vacev, Ivan Nešović, Predrag Petronijević, Andrija Zorić SHEAR STRENGTH OF SELF-COMPACTING STEEL FIBER REINFORCED CONCRETE PUSH-OFF SPECIMENS Aleksandar Šutanovac, Predrag Blagojević, Denis Milenović, Darko Živković
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10:30 - 10:45 10:45 - 11:00 11:00 - 12:00 11:00 - 11:10 11:10 - 11:20 11:20 - 11:30 11:30 - 11:40	Miloš Milić, Todor Vacev, Ivan Nešović, Predrag Petronijević, Andrija Zorić SHEAR STRENGTH OF SELF-COMPACTING STEEL FIBER REINFORCED CONCRETE PUSH-OFF SPECIMENS Aleksandar Šutanovac, Predrag Blagojević, Denis Milenović, Darko Živković Discussion REFRESHMENT BREAK GAF CONCURRENT SESSION - CIVIL ENGINEERING GAF CHAIRS: ZLATKO ZAFIROVSKI, NENAD STOJKOVIĆ DEFINING SEISMIC PARAMETERS FOR AN ESSENTIAL ELECTRIC POWER FACILITY Kitanovski Toni, Dojcinovski Dragi, Sheshov Vlatko, Stojmanovska Marta, Bojadzieva Julijana, Edip Kemal Ivanovski Dejan UNFAVOURABLE GEOLOGICAL CONDITIONS AND ASSOCIATED RISKS IN TUNNELLING Andrija Vlašković, Elefterija Zlatanović, Nemanja Marinković, Zoran Bonić, Nikola Romić GEOGRID-REINFORCED FLEXIBLE PAVEMENT ON CORRIDOR X IN SERBIA Milan Draganović, Dragana Turnić, Biljana Mladenović, Srđan Živković, Marija Spasojević-Šurdilović EVALUATION OF BRIDGE TRAFFIC LOAD MODEL USING B-WIM MEASUREMENTS IN SERBIA Goran Milutinović, Rade Hajdin FATIGUE LIFE PREDICTION OF ADHESIVELY BONDED JOINTS BASED ON STIFFNESS DEGRADATION Nenad Stojković, Petar Knežević, Nikola Velimirović, Nemanja Marković CLASSIFICATION OF RAILWAY SUPERSTRUCTURE RECONSTRUCTION METHODS
10:30 - 10:45 10:45 - 11:00 11:00 - 12:00 11:00 - 11:10 11:10 - 11:20 11:20 - 11:30 11:30 - 11:40 11:40 - 11:50	Miloš Milić, Todor Vacev, Ivan Nešović, Predrag Petronijević, Andrija Zorić SHEAR STRENGTH OF SELF-COMPACTING STEEL FIBER REINFORCED CONCRETE PUSH-OFF SPECIMENS Aleksandar Šutanovac, Predrag Blagojević, Denis Milenović, Darko Živković Discussion REFRESHMENT BREAK GAF CONCURRENT SESSION - CIVIL ENGINEERING GAF CHAIRS: ZLATKO ZAFIROVSKI, NENAD STOJKOVIĆ DEFINING SEISMIC PARAMETERS FOR AN ESSENTIAL ELECTRIC POWER FACILITY Kitanovski Toni, Dojcinovski Dragi, Sheshov Vlatko, Stojmanovska Marta, Bojadzieva Julijana, Edip Kemal Ivanovski Dejan UNFAVOURABLE GEOLOGICAL CONDITIONS AND ASSOCIATED RISKS IN TUNNELLING Andrija Vlašković, Elefterija Zlatanović, Nemanja Marinković, Zoran Bonić, Nikola Romić GEOGRID-REINFORCED FLEXIBLE PAVEMENT ON CORRIDOR X IN SERBIA Milan Draganović, Dragana Turnić, Biljana Mladenović, Srđan Živković, Marija Spasojević-Šurdilović EVALUATION OF BRIDGE TRAFFIC LOAD MODEL USING B-WIM MEASUREMENTS IN SERBIA Goran Milutinović, Rade Hajdin FATIGUE LIFE PREDICTION OF ADHESIVELY BONDED JOINTS BASED ON STIFFNESS DEGRADATION Nenad Stojković, Petar Knežević, Nikola Velimirović, Nemanja Marković

11:00 – 12:30 POSTER SESSION NTP

"ERASING" THE BOUNDARY BETWEEN INTERNAL AND EXTERNAL SPACES IN PRESCHOOL FACILITIES

Aleksandra Rančić, Danica Stanković, Aleksandra Cvetanović

A CASE STUDY OF RECONSTRUCTION OF A RESIDENTIAL MASONRY BUILDING: DOES UPGRADING A BUILDING ADVERSELY AFFECTS ITS EARTHQUAKE PERFORMANCE?

Dušan Turina, Bojan Milošević, Aleksandar Kostić, Davorin Penava, Žarko Petrović

ADAPTING AND TRANSFORMING ABANDONED INDUSTRIAL HERITAGE BUILDINGS INTO CONTEMPORARY OFFICE SPACES ON THE EXAMPLE OF PGNIG IN WARSAW, POLAND

Tadija Vasiljević, Janusz Marchwiński, Uroš Antić

ADAPTIVE REUSE AS AN APPROACH TO THE BUILT HERITAGE PROTECTION IN THE CONTEXT OF NOVI SAD Katarina Doičev. Luka Radosavljević

AFFIRMING THE CONCEPT OF CONTINUITY IN THE MODERNIST HERITAGE THROUGH THE NOTION OF BORDER: CASE STUDY OF THE MEANDER BUILDINGS IN NEW BELGRADE'S BLOCK 23

Vanja Spasenović, Bojana Sićović

ANÁLYŚIS OF PHAŚES AND STEPS OF THE ISO 22370 STANDARD IN PLANNING AND DESIGNING SMART AND RESILIENT CITIES

Ana Stojanović, Dejan Vasović

ANALYSIS OF SULFATE RESISTANCE OF CONCRETE WITH RCA AFTER ONE YEAR EXPOSURE TO SULFATE SOLUTIONS

Vesna Bulatović, Tiana Milović, Olivera Bukvić

APPLICATION OF FLYING ASH DURING STABILIZATION OF SUBBASE

Zlatko Zafirovski, Mite Markovski, Slobodan Ognjenovic, Vasko Gacevski, Ivona Nedevska, Riste Ristov

BIOCLIMATIC ARCHITECTURE: A REVIEW OF ARCHITECTURAL PRACTICE DURING THE PERIOD OF MODERNISM Sonja Stanković

CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT IN SERBIA

Ivan Stojković, Predrag Stanković, Milica Trpkova

EFFLUENT QUALITY FROM THE WASTEWATER TREATMENT PLANT LESKOVAC

Rastislav Trajković, Marija Milićević, Dragan Milićević

EXPLORING THE POSSIBILITY OF CONNECTING THE GAME ENGINE AND GIS AS MEANS OF DECISION SUPPORT IN URBAN PLANINNAG

Petar Vranić, Dušan Tatić

GEOMETRY AND FORM IN FUNCTION OF INTERIOR SPACE AND OUTER APPEARANCE

Jovana Vukanić, Vladan Nikolić, Jasmina Tamburić, Olivera Nikolić, Sanja Spasić Đorđević

IDENTIFYING THE INFLUENCE OF DEMOGRAPHIC COMPONENTS ON URBAN SHRINKAGE OF SMALL TOWNS IN SERBIA

Milica Ljubenović, Ivana Bogdanović-Protić, Jelena Đekić, Mihailo Mitković

IMPACT OF FAÇADE WINDOW DESIGN ON THERMAL COMFORT AND ENERGY EFFICIENCY OF RESIDENTIAL BUILDINGS

Nemanja Ranđelović

IMPROVEMENT OF SOCIO-DEMOGRAPHIC STRUCTURE IN RURAL AREAS IN SERBIA - POSSIBILITIES AND CHALLENGES

Milica Igić, Milena Dinić Branković, Jelena Đekić,, Ivana Bogdanović Protić, Mihailo Mitković

INFLUENCE OF DIFFERENT TYPES OF FIBERS ON PROPERTIES OF CONCRETE

Marko Stojanović, Lana Antić-Aranđelović, Ksenija Janković, Dragan Bojović, Željko Flajs

INFLUENCE OF THERMAL INSULATION POSITION ON CONDENSATION IN THE WALL

Anka Starčev-Ćurčin, Vesna Bulatović, Tiana Milović, Miloš Šešlija

THE INTEGRATION OF GREENERY IN ARCHITECTURE AS AN APPROACH TO ROOFTOP EXTENSION

Ivana Miškeljin, Igor Maraš

LANDSLIDE STABILISATION AND REHABILITATION MEASURES ON THE REGIONALEN ROAD R-1202 MAVROVO - DEBAR, NORTH MACEDONIA

Sead Abazi, Bulent Suloodia

LARGE HOUSING ESTATES IN POST-SOCIALIST PERIOD: DEVELOPMENT STRATEGIES AND PRACTICE

Jelena Đekić, Milena Dinić Branković, Milica Ljubenović, Milica Igić, Mihailo Mitković

MECHANICAL PROPERTIES OF 3D PRINTING CONCRETE BASED ON GEOPOLYMER

Lazar Živković, Biljana Matejević Nikolić, Nenad Ristić, Biljana Mladenović, Nemanja Marinković, Nikola Kostadinov

POSSIBILITIES FOR IMPROVING LIVING ENVIRONMENT IN HIGH-RISE HOUSING AREAS FROM POST-SOCIALIST PERIOD THROUGH URBAN GREEN SPACES: CASE STUDY OF NIŠ, SERBIA

Ivana Bogdanović Protić, Milena Dinić Branković, Milica Ljubenović, Milica Igić

POSSIBILITIES OF ENERGY IMPROVEMENT OF THE EXISTING MULTI-FAMILY BUILDINGS FROM THE PERIOD OF POST-WAR MASS CONSTRUCTION USING VOLUMETRIC ADDITIONS

Bojana Lević, Dušan Ignjatović

POTENTIALS OF EPHEMERAL ARCHITECTURE TO ENCOURAGE REUSE AND ADAPTATION OF ABANDONED INDUSTRIAL COMPLEXES

Dimitra Jezdimirović

PRESERVING THE ARCHITECTURAL HERITAGE OF THE CITY OF NIS IN THE 21ST CENTURY: CHALLENGES AND OPPORTUNITIES (OBILIĆEV VENAC CASE STUDY)

Ivana Cvetković, Đorđe Stošić, Ana Momčilović Petronijević, Sonja Stanković

PROGRAM ACTIVITIES FOR SUSTAINABLE RURAL DEVELOPMENT: CASE STUDY, VILLAGE VUKMANOVO, NIŠ Maša Ranđelović

PROGRAM TRANSFORMATION OF URBAN VILLAS, BUILT IN THE PERIOD BETWEEN THE FIRST WORLD WAR AND THE SECOND WORLD WAR IN NOVI SAD. SERBIA

Tatjana Babić, Milena Krklješ

REVIEW OF SPATIAL PATTERNS IN CONTEMPORARY INDUSTRIAL BUILDINGS

Uroš Antić, Ljiljana Jevremović, Aleksandar Milojković, Branko Turnšek

SERVICE LIFE PREDICTION OF TIMBER-CONCRETE COMPOSITE FLOORS

Nikola Velimirović, Petar Knežević, Aleksandar Radaković, Milivoje Milanović, Nemanja Marković

THE CONSTRUCTION PROJECT EFFICIENCY OF PIER HEAD STRUCTURE DESIGN USING THE HIGH YIELD STRENGTH STEEL

Agung Fajarwanto, Arry Aryadi, G. Aji Sentosa, Harry Budi Prasetya, Eri Dwi Wibawa, Annisa Dewanti Putri, Muhammad Ilham Aditya, Faridz Mohammad Edrie

THE EXPERIENCE OF TERRITORIALITY IN THE LIVING SPACE

Đorđe Alfirević, Sanja Simonović Alfirević

THE POSSIBILITY OF IMPROVING THE ARCHITECTURAL DESIGN OF COMMUNAL AND CIRCULATION AREAS IN PRESCHOOLS USING THE SPACE SYNTAX METHOD

Sofiia Ickovski, Milan Tanić

THE ROLE OF FIBER-REINFORCED POLYMER COMPOSITES IN CIVIL ENGINEERING Ivana Drobnjak

THE ROLE OF OLED DEVICES IN THE DEVELOPMENT OF SMART CITIES

Snežana Đorić-Veljković, Nikola Mitrović, Sandra Veljković, Vojkan Davidović, Emilija Živanović, Ivica Manić, Danijel Danković URBAN RESILIENCE: DEFINITIONS, UNDERSTANDING AND CONCEPTUALIZATION

Ljiljana Vasilevska, Magdalena Slavković

URBAN SPATIAL ANĂLYSIS AND VIRTUAL MODEL NETWORK OF THE CULTURAL BUILDINGS LOCATED AT THE CULTURAL ROUTE IN SKOPJE, N. MACEDONIA

Viktorija Mangaroska, Liljana Mangaroska, Kosta Mangaroski

WASTE-TO-ENERGY INCINERATION TECHNOLOGY- CASE STUDIES OF PLANTS THE SPITTELAU IN VIENNA AND COPENHILL IN COPENHAGEN

Petra Živadinović

PUBLIC PARTICIPATION SUPPORTING URBAN SUSTAINABILITY TRANSITION: RECENT EXPERIENCES FROM PLANNING AND GOVERNANCE PRACTICE IN SERBIAN CITIES

Nataša Čolić, Marina Nenković-Riznić, Marijana Pantić

RECONSTRUCTION OF THE MOUNTAIN HOUSE ACCORDING TO THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT

Mirko Stanimirović, Miomir Vasov, Marko Mančić, Boris Rančev, Milena Medenica

RECONSTRUCTION OF TIGAR SETTLEMENT IN PIROT ACCORDING TO THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT_PART I

Mirko Stanimirović, Ana Momčilović - Petronijević, Milanka Vasić, Luka Zavišić, Nemanja Ranđelović

RECONSTRUCTION OF TIGAR SETTLEMENT IN PIROT ACCORDING TO THE PRINCIPLES OF SUSTAINABLE DEVELOPMENT - PART II

Mirko Stanimirović, Ana Momčilović - Petronijević, Milanka Vasić, Luka Zavišić, Nemanja Ranđelović

EFFECT OF ZEOLITE AND SULPHATE SOLUTION ON REPAIR CEMENT-BASED MORTAR BARS LENGTH CHANGES Tiana Milović, Mirjana Malešev, Vesna Bulatović, Ivan Lukić, Vlastimir Radonjanin

MECHANICAL AND PHYSICAL PROPERTIES OF REPAIR CEMENT MORTARS MODIFIED WITH SLAG

Tiana Milović, Vesna Bulatović, Mirjana Malešev, Milan Marinković, Anka Starčev-Ćurčin

EVALUATION WITHIN ARCHITECTURAL COMPETITIONS IN BELGRADE: CO2 FOOTPRINT ISSUE

Mirko Stanimirović, Slaviša Kondić, Ana Momčilović Petronijević, Nemanja Ranđelović, Olivera Nikolić

ARTS AND ARCHITECTURAL COLLABORATIONS IN ATHENS OF THE SIXTIES (60S)

Dimitris Grigoriou

12.30 CLOSING THE CONFERENCE NTP

13:00 - 15:00 Excursion (Fortress, Synagogue, Bubanj memorial park, monument "Čegar")

SINARG 2023 – ACCOMPANYING PROGRAMS

INTERNATIONAL STUDENT HACKATHON

SCIENCE TECHNOLOGY PARK NIS, ALEKSANDRA MEDVEDEVA 2A, NIŠ, SERBIA - NTP - MOTOROLA HALL

SCHEDULE	WEDNESDAY 13 [™] SEPTEMBER	
15:00	Arrival of hackathon participants. Accommodation in the Rile Men hotel (111 Vojvode Mišića st.).	
19:00 – 20:00	Preparatory meeting at the Faculty of Civil Engineering and Architecture (GAF)	
20:00	Welcome party (Gama club - GAF, 14 Aleksandra Medvedeva st.)	
	Thursday 14 [™] September	
16:00 – 19:00	Lectures for hackathon participants	
20:00	Formal Dinner	
	FRIDAY 15TH SEPTEMBER	
09:00 - 14:00 14:30 - 15:00	Competition Awards ceremony	
15:00 - 16:00	Lunch – catering	
20:00	Formal Dinner	



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MINI CONFERENCE

SYNERGY OF INDUSTRY AND ACADEMIC COMMUNITY

SCIENCE TECHNOLOGY PARK NIS, ALEKSANDRA MEDVEDEVA 2A, NIŠ, SERBIA - NTP - MOTOROLA HALL

SCHEDULE	Thursday 14 th September
12:15 – 12:30	OPENING CEREMONY
	Ivana Lukić, CEO, GreenBuild Cluster, Niš, Serbia
	Professor Miomir Vasov, PhD, Faculty of Civil Engineering and Architecture,
	University of Niš, Serbia
12:30 – 13:30	INVITED LECTURES
12:30 – 12:50	Associate Professor Ljiljana Đukanović, PhD, Faculty of Architecture, University of Belgrade, Serbia
	Assessment of the quality of housing stock in Belgrade according to energy consumption
	Ocena kvaliteta stambenog fonda Beograda sa stanovišta potrošnje energije
12:50 – 13:10	Associate Professor Aleksandar Rajčić, PhD, Faculty of Architecture, University of Belgrade, Serbia
	Energy efficiency of buildings in Serbia-some personal exspiriences from the process of design and
	realization
	Energetska efikasnost zgrada u Srbiji – neka lična iskustva iz procesa projektovanja i realizacije
13:10 – 13:30	Assistant Professor Andrej Josifovski, PhD, Faculty of Architecture, University of Belgrade, Serbia
	Re-VILLAGE ECOlogical experiments in architecture
	Re-SELO EKOloški eksperimenti u arhitekturi
13:30 – 13:50	Professor Miomir Vasov, PhD, Faculty of Civil Engineering and Architecture, University of Niš, Serbia
	Bioclimatism as a tipping point
	Bioklimatizam kao ishodište
13:50 – 14:10	Associate Professor Goran Vučković, PhD, Faculty of Mechanical Engineering, University of Niš, Serbia
	Heat pumps in the function of sustainable construction in the building sector
4440 4400	Toplotne pumpe u funkciji odrzive gradnje u sektoru zgradarstva
14:10 - 14:30	SPONSOR PRESENTATIONS
14:10 - 14:30	Aleksandar Nedeljković, Sika Srbija
	Sika green building concepts
44.00 45.00	Sika koncepti zelene gradnje
14:30 – 15:00	Discussion
15:00 – 16:00	LUNCH BREAK







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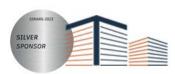




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