

*THE INTERNATIONAL CONFERENCE
SYNERGY OF ARCHITECTURE & CIVIL ENGINEERING
SINARG 2023*

AGENDA



International Conference

Synergy of Architecture & Civil Engineering

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

LEGEND OF THE LOCATIONS:

- *UNIVERSITY 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, NIŠ, SERBIA - CONFERENCE CENTER – [NTP]*

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SINARG 2023 – AGENDA

SCHEDULE	WEDNESDAY 13 TH SEPTEMBER	LOCATION
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 <i>Professor Slaviša Trajković, PhD, Dean, Faculty of Civil Engineering and Architecture, University of Niš, Serbia</i> <i>Associate Professor Vuk Milošević, PhD, Faculty of Civil Engineering and Architecture, University of Niš, Serbia</i> <i>Milan Randelović, PhD, CEO, Science Technology Park Niš, Serbia</i> <i>Academician Dušan Teodorović, PhD, Serbian Academy of Sciences and Arts, Belgrade, Serbia</i>	NTP
10:15 – 11:15	INVITED LECTURES <i>Academician Dušan Teodorović, PhD, Serbian Academy of Sciences and Arts, Belgrade, Serbia</i> URBAN TRAFFIC CONGESTION: CAUSES AND POSSIBLE SOLUTIONS <i>Senior Lecturer Milena Metalkova-Markova, PhD, University of Portsmouth, Portsmouth, United Kingdom</i> THE WAY OF BEAUTY- ARCHITECTURE AS A QUASI-OBJECT BETWEEN CONSUMPTION AND SUSTAINABILITY	NTP
10:45 – 11:15		
11:15 – 12:00	SPONSOR PRESENTATIONS Platinum Plus Sponsor / Put Inženjering Niš / Platinum Sponsors / Građevinska direkcija Srbije Beograd / / Project Biro UTIBER Novi Sad / Golden Sponsors / Kapaprojekt Niš / / Inženjerska komora Srbije /	NTP
12:00 – 12:15	REFRESHMENT BREAK	NTP
12:15 – 13:45	INVITED LECTURES <i>Professor Hartmut Pasternak, PhD, Brandenburg University of Technology, Cottbus, Germany</i> APPLICATION OF ADHESIVELY BONDED CFRP FOR REINFORCEMENT AND REHABILITATION OF FATIGUE DAMAGED STEEL STRUCTURE - ONLY A NICE IDEA? <i>Professor Beatrice-Gabriela Jöger, PhD, Ion Mincu University of Architecture and Urbanism, Bucharest, Romania</i> ARCHITECTURE AND TEXTILES - A MILLENNIAL STORY <i>Associate Professor Michael Tritthart, PhD, University of Natural Resources and Life Sciences, Vienna, Austria</i> INTEGRATED RIVER RESTORATION DESIGN BASED ON HYDRODYNAMIC AND MORPHODYNAMIC CHARACTERISTICS	NTP
12:45 – 13:15		
13:15 – 13:45		
13:45 – 14:15	MINI CONCERT - ZORAN PREDIN	NTP
14:15 – 15:00	SPONSOR PRESENTATIONS Silver Sponsors / Arhibet Niš / / Apokrifi Niš / / Tončev Gradnja Surdulica / / GEBERIT Beograd / / Moravacem D.O.O. Popovac /	NTP
15:00 – 16:00	LUNCH BREAK	NTP

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

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

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

18:50 – 19:00	EXTENDING THE LIFE OF RESIDENTIAL BUILDINGS THROUGH ADAPTATION: A CASE STUDY OF NIŠ, SERBIA <i>Branislava Stojiljković, Hristina Krstić, Nataša Petković, Vladana Petrović</i>	
19:00 – 19:10	FUNCTIONAL ORGANIZATION OF MEDIUM-SIZED APARTMENTS IN NEW CONSTRUCTION IN SERBIA <i>Hristina Krstić, Branislava Stojiljković, Nataša Petković, Vladana Petrović</i>	
19:10 – 19:20	Discussion	
16:00 - 18:00	CONCURRENT SESSION - CIVIL ENGINEERING	GAF
	CHAIRS: ELEFTERIJA ZLATANOVIĆ, CHARALAMPOS SKOULIKARIS	
16:00 – 16:10	GEOTECHNICAL CONDITIONS IN EXPERIMENTAL TESTING OF CLAYEY SOIL SUBJECTED TO CHEMICAL-ELECTROKINETIC TREATMENT <i>Zoran Bonić, Elefterija Zlatanović, Nemanja Marinković, Snežana Đorić-Veljković, Dragan Đorđević, Nikola Romić, Branimir Stanković</i>	
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 <i>Aleksandra Ilić, Ilija Ilić, Dragan Radivojević, Borko Radivojević</i>	
16:20 – 16:30	QUANTITATIVE CHARACTERISTICS OF HIGH INTENSITY RAINFALL IN THE VICINITY OF THE CITY OF NIŠ <i>Stevan Prohaska, Aleksandra Ilić, Ognjen Prohaska, Vladislava Bartoš Divac</i>	
16:30 – 16:40	FOSTERING FLOOD CONTROL POLICY MEASURES AT BASIN SCALE HYDROSYSTEMS WITH THE USE OF GEO-SPATIAL TECHNOLOGIES <i>Charalampos Skoulikaris, Eleni Tzanou</i>	
16:40 – 16:50	COMPARATIVE ANALYSIS OF ATTERBERG'S LIMITS OF FINE-GRAINED SOIL DETERMINED BY VARIOUS METHODS <i>Nemanja Marinković, Elefterija Zlatanović, Zoran Bonić, Nikola Romić, Dušan Cvetković, Lazar Živković</i>	
16:50 – 17:00	Discussion	
17:00 – 17:10	SIGNIFICANCE OF NUMERICAL SIMULATION OF SOIL MEDIA IN SSI ANALYSIS OF FRAMES <i>Kemal Edip, Vlatko Sheshov, Julijana Bojadjieva, Toni Kitanovski, Dejan Ivanovski</i>	
17:10 – 17:20	ON ROTATIONAL INVARIANCE OF HIGHER-ORDER MOMENTS OF REGULAR POLYHEDRA <i>Márton Módis, Flórián Kovács</i>	
17:20 – 17:30	RAILWAY VIADUCTS – RE-USING TRANSPORT INFRASTRUCTURES IN EUROPEAN CITIES <i>Iulia Gabriela Drăghici</i>	
17:30 – 17:40	STRENGTHENING OF REINFORCED CONCRETE BEAM ELEMENTS USING ROD-FORM COMPOSITE MATERIALS <i>Slobodan Ranković, Radomir Folić, Marina Mijalković, Žarko Petrović</i>	
17:40 – 17:50	COMPARATION OF LABORATORY AND IN-SITU TEST RESULTS OF MECHANICAL AND DURABILITY CONCRETE PROPERTIES FOR STADIUM STRUCTURE <i>Marko Čečez, Merima Šahinagić-Isović, Mili Selimotić</i>	
17:50 – 18:00	Discussion	
18:00 – 18:10	REFRESHMENT BREAK	GAF
18:10 – 19:10	CONCURRENT SESSION - CIVIL ENGINEERING	GAF
	CHAIRS: RADOMIR FOLIĆ, ZORAN GRDIĆ	
18:10 – 18:20	HIGH STRENGTH CONCRETES BASED ON THE CHOICE OF THE BEST PARTICLE SIZE DISTRIBUTION IN AGGREGATE <i>Zoran Grdić, Nenad Ristić, Dušan Grdić, Gordana Topličić-Ćurčić, Dejan Krstić, Jelena Bijelić</i>	
18:20 – 18:30	LABORATORY TESTS OF CONCRETE CYLINDERS CONFINED WITH INOVATIVE MATERIALS <i>Artur Roshi, Golubka Nechevska-Cvetanovska, Julijana Bojadjieva, Jordan Bojadjiev</i>	
18:30 – 18:40	SEISMIC PERFORMANCE OF RC BUILDING COLUMNS CONFINED WITH CFRP <i>Artur Roshi, Golubka Nechevska-Cvetanovska, Julijana Bojadjieva, Jordan Bojadjiev</i>	
18:40 – 18:50	SULFATE RESISTANCE OF GEOPOLYMER CONCRETE PRODUCED WITH HAZARDOUS WASTE VITREOUS ENAMEL GENERATED IN THE PRODUCTION PROCESS OF HEATING DEVICES <i>Nenad Ristić, Jelena Bijelić, Dušan Grdić, Gordana Topličić-Ćurčić, Zoran Grdić</i>	
18:50 – 19:00	STABILITY OF COMPRESSED CHORD OF HALF-THROUGH TRUSS GIRDERS IN BRIDGE CONSTRUCTION ACCORDING TO EUROCODE WITH CASE STUDY <i>Aleksandar Stojanović, Jovan Anđelković</i>	
19:00 – 19:10	Discussion	
20:00	CONFERENCE DINNER - RESTAURANT "ŠVAJCARIJA", VIZANTIJSKI BULEVAR 17	

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

SCHEDULE	FRIDAY 15TH SEPTEMBER	LOCATION
09:00 – 10:45	INTER-PROJECT COACHING EVENT (HORIZON, COST, ERASMUS+, SERBIAN SCIENCE FUND, ...)	LAB
	<p>CHAIRS: <i>HARSHA RATNAWEERA, MILAN GOCIĆ</i> 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</p>	
11:00 – 12:00	TRIBUTE SESSION	205
	MODERATOR: ANDRIJA ZORIĆ	
	<p>Speakers:</p> <p style="padding-left: 40px;"><i>Predrag Petronijević</i> <i>Darko Živković</i> <i>Andrija Zorić</i></p>	
09:00 – 12:30	CONCURRENT SESSIONS + POSTER SESSION	NTP + GAF
09:00 – 10:45	CONCURRENT SESSION - ARCHITECTURE	NTP
	CHAIRS: <i>ANA MOMČILOVIĆ PETRONIJEVIĆ, VLADAN NIKOLIĆ</i>	
09:00 – 09:10	21 ST CENTURY ARCHITECTURE TRENDS - NEW CLOCKWORK ORANGE CHALLENGE <i>Dejan Vlaškalić</i>	
09:10 – 09:20	THE INFLUENCE OF GENERATIVE DESIGN ON THE PROCESS OF ARCHITECTURAL SPACE PLANNING <i>Jovana Tomić, Sonja Krasić, Nastasija Kocić</i>	
09:20 – 09:30	MERSI – FROM BASIC NEEDS TO INCLUSIVE DESIGN FOR ROMANIAN SPECIAL SCHOOLS <i>Oana Mihăescu, Alexandra Vișan, Silvia Păduraru, Ioana Șerbănescu</i>	
09:30 – 09:40	INTEGRATING SUSTAINABILITY ASSESSMENT INTO ARCHITECTURAL EDUCATION. CASE STUDY FOR THE 5TH YEAR STUDENTS, FACULTY OF ARCHITECTURE, BUCHAREST, ROMANIA <i>Oana Mihăescu, Radu Pană, Andreea Prelipcean, Alexandra Vișan</i>	
09:40 – 09:50	APPLICATION OF THE CONCEPT OF BIOCLIMATIC DESIGN AND PLANNING OF FACILITIES IN CITIES TO PREVENT POLLUTANTS EMISSIONS <i>Marija Mihajlović, Miomir Vasov, Tamara Janković, Natalija Mratinković</i>	
09:50 – 10:00	Discussion	
10:00 – 10:10	PUBLIC PARTICIPATION SUPPORTING URBAN SUSTAINABILITY TRANSITION: RECENT EXPERIENCES FROM PLANNING AND GOVERNANCE PRACTICE IN SERBIAN CITIES <i>Nataša Čolić, Marina Nenković-Riznić, Marijana Pantić</i>	
10:10 – 10:20	DEVELOPMENT OF THE REVITALIZATION MODEL OF DEPOPULATED VILLAGES ON THE EXAMPLE OF THE MUNICIPALITY OF CRNA TRAVA – PART I <i>Ana Momčilović Petronijević, Olivera Nikolić, Mirko Stanimirović, Marko Joksimović, Vladan Nikolić</i>	
10:20 – 10:30	DEVELOPMENT OF THE REVITALIZATION MODEL OF DEPOPULATED VILLAGES ON THE EXAMPLE OF THE MUNICIPALITY OF CRNA TRAVA – PART II <i>Ana Momčilović Petronijević, Olivera Nikolić, Mirko Stanimirović, Marko Joksimović, Vladan Nikolić</i>	
10:30 – 10:45	Discussion	
10:45 – 11:00	REFRESHMENT BREAK	NTP
11:00 – 12:20	CONCURRENT SESSION - ARCHITECTURE	NTP
	CHAIRS: <i>MIOMIR VASOV, NADJA KURTOVIĆ FOLIĆ</i>	
11:00 – 11:10	EXPERIMENTAL DETERMINATION OF DYNAMIC PARAMETERS OF HEAT PASSAGE THROUGH THE FACADE WALL OF A WEEKEND COTTAGE ON MOUNTAIN KOPAONIK, SERBIA <i>Stefan Novčić, Diana Vranešević, Aleksandra Parezanović, Ivana Medarević, Radovan Gospavić, Goran Todorović</i>	
11:10 – 11:20	INVESTIGATION OF THE POSSIBILITIES OF USING "BUZZI-SPACE" APPLICATION IN ORDER TO PREDICT REVERBERATION TIME <i>Predrag Radomirović</i>	

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

11:20 – 11:30	TOWARDS NUMERICAL ARCHITECTURAL ORDER IDENTIFICATION: EXPRESSING CAPITAL MORPHOLOGY BY USING DYNAMICS OF ITS PARAMETERS <i>Đorđe Mitrović, Đorđe Đorđević, Mirjana Devetaković, Gordana Đukanović</i>
11:30 – 11:40	COOPERATION BETWEEN ARCHITECTS AND STRUCTURAL ENGINEERS IN THE DESIGN OF COMPLEX STRUCTURES – THE REVIEW <i>Miloš Čokić, Ružica Kovačević, Radomir Folić, Nađa Kurtović Folić</i>
11:40 – 11:50	THE USE OF “GEOTEXTILES” FOR THE PROTECTION OF ARCHAEOLOGICAL SITES WITH MOSAICS <i>Elena Vasić Petrović</i>
11:50 – 12:00	REFURBISHING INNOVATIVE STRUCTURES: THE CASE OF ROMANIAN SPORTS HALLS <i>Ruxandra Balcanu</i>
12:00 – 12:10	SOME SIGNIFICANT ACHIEVEMENTS OF CONCRETE STRUCTURES <i>Nađa Kurtović Folić, Radomir Folić, Miloš Čokić</i>
12:10 – 12:20	Discussion

09:00 – 10:45	CONCURRENT SESSION - CIVIL ENGINEERING	GAF
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CHAIRS: MILAN STOJKOVIĆ, VUK MILOŠEVIĆ, DUŠAN RANĐELOVIĆ	
09:00 – 09:10	BIAS CORRECTION OF CLIMATE DATA BY THE QUANTILE MAPPING FOR TWO RIVER CATCHMENTS IN THE JUŽNA MORAVA RIVER BASIN <i>Nikola Đokić, Borislava Blagojević</i>
09:10 – 09:20	BIAS CORRECTION AND WEIGHTING METHODS TO SHAPE PRECIPITATION UNDER THE CLIMATE CHANGE OPTIONS <i>Luka Vinokić, Milan Stojković, Srđan Kolaković</i>
09:20 – 09:30	COMPARISON OF DAILY AND MONTHLY REFERENCE EVAPOTRANSPIRATION IN AN URBAN AREA <i>Mladen Milanović, Slaviša Trajković, Milan Gocić, Martina Zelenakova, Hany F. Abd-Elhamid</i>
09:30 – 09:40	ENSURING OF THE FINANCIAL RISKS IN BUILDING OF A CONSTRUCTION PROJECT <i>Tatjana Ackovska</i>
09:40 – 09:50	DAMAGE FORMS OF STEEL CONSTRUCTIONS <i>Marko Milošević, Dragoslav Stojić, Srđan Živković</i>
09:50 – 10:00	Discussion
10:00 – 10:10	DEFLECTIONS OF BARREL VAULT SHAPED MEMBRANE MODEL UNDER EXTERNAL LOADS <i>Vuk Milošević, Dragan Kostić, Miomir Vasov, Dušan Ranđelović, Janusz Marchwiński</i>
10:10 – 10:20	DETERMINATION OF THE BOLT YIELD MOMENT FOR STEEL-TIMBER COMPOSITE CONNECTIONS <i>Miloš Milić, Todor Vacev, Ivan Nešović, Predrag Petronijević, Andrija Zorić</i>
10:20 – 10:30	SHEAR STRENGTH OF SELF-COMPACTING STEEL FIBER REINFORCED CONCRETE PUSH-OFF SPECIMENS <i>Aleksandar Šutanovac, Predrag Blagojević, Denis Milenović, Darko Živković</i>
10:30 – 10:45	Discussion

10:45 – 11:00	REFRESHMENT BREAK	GAF
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11:00 – 12:00	CONCURRENT SESSIONS - CIVIL ENGINEERING	GAF
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CHAIRS: TODOR VACEV, PREDRAG PETRONIJEVIĆ	
11:00 – 11:10	DEFINING SEISMIC PARAMETERS FOR AN ESSENTIAL ELECTRIC POWER FACILITY <i>Kitanovski Toni, Dojcinovski Dragi, Sheshov Vlatko, Stojmanovska Marta, Bojadziewa Julijana, Edip Kemal, Ivanovski Dejan</i>
11:10 – 11:20	UNFAVOURABLE GEOLOGICAL CONDITIONS AND ASSOCIATED RISKS IN TUNNELLING <i>Andrija Vlašković, Elefterija Zlatanović, Nemanja Marinković, Zoran Bonić, Nikola Romić</i>
11:20 – 11:30	GEOGRID-REINFORCED FLEXIBLE PAVEMENT ON CORRIDOR X IN SERBIA <i>Milan Draganović, Dragana Turnić, Biljana Mladenović, Srđan Živković, Marija Spasojević-Šurdilović</i>
11:30 – 11:40	EVALUATION OF BRIDGE TRAFFIC LOAD MODEL USING B-WIM MEASUREMENTS IN SERBIA <i>Goran Milutinović, Rade Hajdin</i>
11:40 – 11:50	FATIGUE LIFE PREDICTION OF ADHESIVELY BONDED JOINTS BASED ON STIFFNESS DEGRADATION <i>Nenad Stojković, Petar Knežević, Nikola Velimirović, Nemanja Marković</i>
11:50 – 12:00	CLASSIFICATION OF RAILWAY SUPERSTRUCTURE RECONSTRUCTION METHODS <i>Jelena Dimitrijević, Zlatko Zafirovski</i>
12:00 – 12:10	Discussion

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

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 Dojčev, 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

ANALYSIS OF PHASES 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 Ognjenović, 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 PLANNING

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-Čurčin, 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 REGIONAL ROAD R-1202 MAVROVO - DEBAR, NORTH MACEDONIA

Sead Abazi, Bulent Suloodja

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

SYNERGY OF ARCHITECTURE AND CIVIL ENGINEERING - SINARG 2023

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

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

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

Maša Randelović

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, Ary 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

Sofija 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 ANALYSIS 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

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**

WEDNESDAY 13TH 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 14TH SEPTEMBER

16:00 – 19:00 Lectures for hackathon participants

20:00 **Formal Dinner**

FRIDAY 15TH SEPTEMBER

09:00 – 14:00 Competition

14:30 Awards ceremony

15:00 - 16:00 Lunch – catering

20:00 **Formal Dinner**

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

