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DAY 1 - Monday, 22nd March 2021

9:00 - 9:30	**Registration of on-site participants**		
	Great hall		
10:00 - 12:00	**Opening ceremony**		
12:00 - 13:00	**Lunch break**		
13:00-15:15	**Great hall - Chairman: Mario Uroš and Mislav Stepinac**		
	Keynote lecture **Peter Fajfar** **Practice-oriented nonlinear seismic analysis**		
	Keynote lecture **Paulo B. Lourenço** **Monuments and historic buildings: Applications and challenges in structural engineering**		
	Keynote lecture **Kyriazis Pitilakis** **Site effects, site classification and intensity dependent amplification site factors in view of the ongoing revision of EC8**		
break	**Great hall - Chairman: Marta Šavor Novak & Mario Uroš**	**Room 218 - Chairman: Antonia Jaguljnjak Lazarević & Maja Baničcek**	**Room 121 - Chairman: Nataša Holcinger & Zvonko Sigmund**
	Session 1A Seismic Performance of Structures	**Session 1B - Innovative Technology / Post Disaster Recovery and Reconstruction**	**Session 1C - Earthquake Risk Mitigation Policies and Management**
15:30 - 16:45	**Jure Starc, Anže Babič, Jure Žižmond, Matjaž Dolšek** **Seismic stress test of the building stock of the University of Ljubljana**	**Lorenzo Del Giudice, Rafal Wrobel, Christian Leinenbach, Michalis F. Vassiliou** **Physical modelling of RC concrete structures using additively manufactured reinforcement of submillimeter diameter**	**Nataša Holcinger, Zaviša Šimac** **Importance of National platforms in disaster risk governance**
	Veronika Shendova, Goran Jekic, Aleksandar Zlateski, Blagojce Stojanoski **IZIIS' INTEGRATED APPROACH IN SEISMIC RETROFITTING OF HISTORIC BUILDINGS AND MONUMENTS**	**Natalia Reggiani Manzo, Michalis F. Vassiliou** **Non-linear spectrum-based analysis of rocking structures**	**Mark White** **OUTWRESTLING TSUNAMIS WITH RESILIENT DESIGNS: MEETING THE CHALLENGE IN DUBROVNIK AND HILO**
	Radomir Folić, Miloš Čokić **FRAGILITY ANALYSIS OF RC BUILDING WITH THE APPLICATION OF NONLINEAR ANALYSIS**	**Goran Chapragoski, Golubka Nechevska-Cvetanovska** **FINITE ELEMENT MODELING OF FRP STRENGTHENED COLUMN SUBJECTED UNDER CYCLIC LOADING**	**Massimo Migliorini** **Virtual and Aumented Reality for Disaster Risk Reduction**
	Igor Tomić, Francesco Vanin, Katrin Beyer **Modelling historical masonry aggregates using the Equivalent Frame Approach**	**Maria Valasaki, Christos Papakonstantinou** **FRP-Confined Concrete: A Comparison Analysis of Ultimate Axial Strain Models**	**Mark Klyachko** **Preventive seismic strengthening for urban resilience**
	Svetlana Brzev, Predrag Blagojević, Radovan Cvetković **Wall Index Requirements for Seismic Design and Assessment of Masonry Buildings**	**Golubka Nechevska-Cvetanovska, Artur Roshi, Jordan Bojadjiev, Zoran Trajchevski** **STRENGTH AND DUCTILITY CAPACITY OF RC COLUMNS STRENGTHENED WITH CFRP MATERIALS**	**Luis Davila Migoya, José Manuel Cabrero, Héctor García-Diego** **Seismic vulnerability in Guatemala City considering the urban planning**
	Miroslav Nastev **Planning a ShakeOut earthquake scenario for Quebec City, Canada**	**Ioanna Skyrianou, Christos Papakonstantinou, Lampros Koutas** **Mechanical Performance of Rubberized Concrete Confined with Textile Reinforced Mortar Jackets**	**Alexander Petritz** **Vienna-STEP-2025**
		Maria Valasaki, George Ristas, Christos Papakonstantinou **FRP-Confined Concrete Analytical Axial Stress Model Evaluation**	
break	**Great hall - Chairman: Nenad Bijelić**		
17:00 - 18:30	**Keynote lecture** **Gregory Deierlein** **From Performance-Based Earthquake Engineering to Urban Resilience**		
	Keynote Lecture **Dimitrios Lignos** **Advancing the seismic performance of steel moment resisting frames through physical testing and simulation**		

DAY 2 - Tuesday, 23th March 2021

	Great hall - Chairmans: Josip Atalić & Marta Šavor Novak				**Faculty hall - Chairmans: Jadranka Veselić Bruvo, Nives Mornar, Josip Atalić**		
	Keynote lectures				**Special Session I (in Croatian) - Block19: Urban Renovation Wave Triggered by Earthquake Session organized by the City of Zagreb Bureau for Physical Planning**		
9:00 - 11:00	**Keynote lecture** **Agostino Goretti** **For the need to build a post-earthquake rapid assessment capacity in the Balkans**				**10:00 - 10:10**	**Jadranka Veselić Bruvo, Nives Moranar** **Program cjelovite obnove povijesne jezgre Grada Zagreba – integrirani održivi pristup**	City of Zagreb Bureau for Physical Planning
					10:10 - 10:20	**Josip Atalić** **Konstruktorski modeli obnove**	Faculty of Civil Engineering University of Zagreb
	Keynote lecture **Vitor Silva** **The Potential Impact of Earthquakes in the Global COVID19 Pandemic**				**10:20 - 10:30**	**Katarina Horvat Levaj** **Konzervatorski modeli obnove**	Institut za povjes tumjetnosti
					10:30 - 10:40	**Angelina Svirčić Gotovac** **Sociološka studija**	stitut za društvena istraživan
	Keynote lecture **Paolo Morandi** **Seismic assessment of brick URM buildings: latest findings and future perspectives**				**10:40 - 10:50**	**Tihomir Jukić** **Urbanistički modeli obnove**	Arhitektonski fakultet Zavod za urbanizam, prostorno planiranje i peizažnu arhitekturu
					10:50 - 11:00	**Gliha Igor , Hano Ernst** **Imovinskopravni modeli obnove**	Pravni fakultet
					11:00 - 11:10	**Ljubo Jurčić, . Gelo** **Ekonomski modeli obnove**	Ekonomski fakultet
break	**Great hall - Chairmans: Boris Trogrlić & Hrvoje Smoljanović**	**Room 121 - Chairman: Anita Cerić**	**Room 218 - Chairman: Domagoj Damjanović**	**Room 216 - Chairman: Marijana Serdar**	**11:10 - 11:20**	**pitanja**	
	Session 2A Seismic Performance of Structures / Post Disaster Recovery and Reconstruction	**Session 2B - Earthquake Risk Mitigation Policies and Management**	**Session 2C - Seismic Performance of Structures (experimental)**	**Session 2D - Post Disaster Recovery and Reconstruction (assessment)**	**Chairmans Krešimir Rogina, Jadranka Veselić Bruvo, Nives Mornar**		
11:30 - 13:00	**Mariano Zanini, Gianantonio Feltrin** **RELIABILITY-TARGETED BEHAVIOUR FACTOR EVALUATION FOR CODE CONFORMING ITALIAN RC BARE AND INFILLED BUILDINGS**	**Goran Jekic, Veronika Shendova, Golubka Nechevska-Cvetanovska, Zivko Bozinovski, Roberta Apostolska, Blagojce Stojanoski, Aleksandar Zlateski, Aleksandar Zhurovski, Kristijan Runevski, Elena Delova** **IZIIS' SEISMIC ASSESSMENT PROTOCOL FOR EXISTING BUILDING STRUCTURES**	**A.A. Katsamakas, M.F. Vassiliou** **Shake table statistical validation of Finite Element models of rocking structures**	**Enrica Verrucci, Valentina Putrino, Emily So, Dina D'Ayala** **Remote earthquake damage reconnaissance missions: "business as usual" through technology and networking**	**11:30 - 11:40**	**Julije Domac, Miljenko Sedlar** **Klima i zelena infrastruktura**	Regionalan energetska agencija Sjeverozapadne Hrvatske - REGEA
	Ioannis Papargyriou, Seyed Mohammad Mojtabaei, Iman Hajirasouliha, Jurgen Becque **Cyclic and monotonic moment-rotation behaviour of CFS web-connected beam-to-column joints suitable for seismic applications**	**Aleksandar Zlateski, Veronika Shendova** **Harmonization of seismic vulnerability assessment of urban historic centers**	**Igor Gjorgjiev, Goran Jekic, Aleksandar Zhurovski** **IDENTIFICATION OF DYNAMIC PROPERTIES OF RC BUILDINGS IN SKOPJE BY IN-SITU TESTING**	**Vlatko Sheshov, Roberta Apostolska, Marija Vitanova, Zivko Bozinovski, Aleksandra Bogdanovik, Kemal Edip, Blagojce Stojanovski, Radmila Sali** **Post-earthquake mission in Durres, Albania, from Science to practice**	**11:40 - 11:50**	**Duić** **Energetska tranzicija**	Fakultet strojarstva i brodogradnje
	Esmaeel Asadi, Edgar Emilio Bastidas Arteaga, Yue Li **Seismic Life-cycle Functional Recovery Analysis of Corroded Reinforced Concrete Buildings**	**Elena Dumova-Jovanoska, Grozde Aleksovski, Liljana Denkovska, Sergey Churilov, Kristina Milkova, Simona Bogoevska, Stefan Micevski** **SEISMIC VULNERABILITY OF EXISTING MASONRY BUILDINGS IN THE BALCAN AREA - CASE NORTH MACEDONA**	**Emir Hodžić, Senad Medic, Mustafa Hrasnica** **EXPERIMENTAL VERSUS NUMERICAL RESPONSE OF R.C. WALLS SUBJECTED TO EARTHQUAKE LOADING**	**Ksenija Tesic, Ana Baričević, Marijana Serdar** **CASE STUDY ON APPLICATION OF GROUND-PENETRATING RADAR FOR NON-DESTRUCTIVE ASSESSMENT OF HISTORICAL BUILDING**	**11:50 - 12:00**	**Željko Stepan, Položki** **Unapređenje mobilnosti i prometnog sustava**	Građevinski fakultet Zavod za prometnice
	Lukas Bodenmann, Yves Reuland, Božidar Stojadinović **Using regional earthquake risk models as priors to dynamically assess the impact on residential buildings after an event**	**Mohammad Mizanur Rahman, Abdullah Al Tariq, Sabrina Sharmin** **Earthquake Resilience at District Level Hospital in Bangladesh: Tactic of Non-Structural Elements and Social Awareness**	**Eldin Kaloper, Edhem Živalj, Senad Medic** **Experimental and numerical assessment of reinforced concrete column under cyclic loading**	**Tomaž Pazlar, Milost Egon** **Albania 2019 earthquake: Building damage assessment**	**12:00 - 12:10**	**Zoran Veršić** **Kružno gospodarstvo**	Arhitektonski fakultet Zavod za zgradarstvo i fiziku zgrada
	Diana Maria Contreras Mojica, Laure Fallou, Matthieu Landès , Sean Wilkinson, Ivan Tomljenovich , Nipun Balan Balan , Rémy Bossu, Philip James **Assessing Emergency Response and Early Recovery using Sentiment Analysis (SA). The case of Zagreb, Croatia**	**Kristina Milkova, Elena Dumova-Jovanoska, Christoph Butenweg** **Region-sensitive comprehensive procedure for determination of Seismic Fragility Curves for Existing Masonry Buildings**	**George TARANU, Ionut-Ovidiu TOMA, Nicolae TARANU** **Shake table test of a 1:2 scale historical unreinforced masonry building**	**Drilona Disha, Hektor Cullufi** **THE IDENTIFICATION OF DAMAGES OCCURRED IN REINFORCED CONCRETE STRUCTURES DURING DURRES EARTHQUAKE 2019**	**12:10 - 12:20**	**Krešimir Rogina** **Projektantski modeli obnove - Scenarij II**	R/INOVACIJA
	Boris Azinović, Meta Kržan, Tomaž Pazlar **In-plane lateral testing of timber based shear walls and the influence of loading rate**	**Alexandru Tiganescu, Dragos Toma-Danila, Bogdan Grecu, Iolanda-Gabriela Craifaleanu, Stefan Florin Balan, Claudiu Sorin Dragomir** **Current status and perspectives on seismic monitoring of structures and rapid seismic loss estimation in Romania**	**Qudratullah Sharafi, Ahmad Naqi, Taiki Saito** **Effect of Brick Masonry Infill Walls on Seismic Performance of Reinforced Concrete Frame Structures in Afghanistan**	**Mislav Stepinac, Tomislav Kisicek, Tvrtko Renić, Ivan Hafner, Luka Lulić, Karlo Ožić** **The role of assessment in the proper rehabilitation of existing structures**	**12:20 - 12:30**	**Marijan Hržić** **Projektantski modeli obnove - Scenarij I**	Arhitektonski Atelier HRŽIĆ
	Matej Šodan, Boris Trogrlić, Damir Foretić, Antonio Munjiza, Ivan Balić, Hrvoje Smoljanović **FEM DEM FAILURE ANALYSIS: BELL TOWER OF CHURCH OF ST. FRANCIS OF ASSISI ON KAPTOL IN ZAGREB**	**Tanzila Aktar Shawon, Akter Mahmud, Mohammad Mizanur Rahman, Michio Ubaura, Masudur Rashied** **Evaluating Earthquake Vulnerability Using Analytical Hierarchy Process (AHP) and Social Appraisal of Retrofitting in Lalmatia, Dhaka**		**Luka Lulić, Tvrtko Renić, Michele Škofić, Ivan Hafner, Tomislav Kisicek, Mislav Stepinac** **Damage assessment after the Zagreb earthquake – The case study of the educational building**	**12:30 - 12:50**	**pitanja**	
		David Koren, Katarina Rus **Assessment of a city performance under different earthquake scenarios**		**Ivan Hafner, Tomislav Kišiček, Tvrtko Renić, Karlo Ožić** **An insight into The Masonry Quality Index (MQI) method for the visual assessment of existing masonry structures**	**12:50 - 13:00**	**Jadranka Veselić Bruvo, Nives Mornar** **zaključak**	
13:00 - 14:00	**Lunch break**						

14:00 - 15:30	**Great hall - Chairmans: Marija Demšić & Senad Medić**	**Room 121 - Chairman: Tomislav Kišiček**	**Room 218 - Chairman: Gordana Hrelja Kovačević**	**Room 216 - Chairman: Vlatka Rajčić**	**Faculty hall - Chairman: Sanja Jerković**
	Session 3A- Seismic Performance of Structures	**Session 3B - Seismic Performance of Structures (infil frames)**	**Session 3C - Seismic Performance of Structures (bridges)**	**Session 3D- Seismic Performance of Structures**	**Session 3E -Post Disaster Recovery and Reconstruction (arhitects)**
	Željana Nikolić Estimation of the seismic capacity of civil engineering structures	**Filip Anić, Davorin Penava, Ivica Guljaš, Tihomir Dokšanović** Out-of-Plane Behaviour of Masonry Infilled RC Frames with Openings under Cyclic Loading	**Zlatko Šavor, Nijaz Mujkanović, Gordana Hrelja Kovačević, Anđelko Vlašić, Mladen Srbić** Seismic designs of some recent bridges created by the Bridge Department of Zagreb Faculty of Civil Engineering	**Vlatka Rajčić, Jure Barbalić, Nikola Perković** Seismic and energy renovation of masonry or RC framed buildings with prefabricated timber or composite timber panels	**Rüdiger Lainer, Oliver Sterl** DEVELOPMENT OF URBAN CENTERS IN HISTORICAL CONTEXT (on examples of the City of Vienna)
	Sandra Nedeljkovic, Zeljko Zugic Dejan Dragojevic Post disaster recovery practice in SErbia 2010 - 2020	**Arkadiusz Kwiecień, Zoran Rakicevic, Aleksandra Bogdanovic, Theodoros Rousakis, Alper Ilki, Matija Gams, Alberto Viskovic, Filip Manojlovski, Angela Poposka, Antonio Soklarovski** PUFJ and FRPU earthquake protection of infills tested in resonance	**Maria Gabriella Castellano, Alberto Dusi** SEISMIC ISOLATION OF BRIDGES THROUGH CURVED SURFACE SLIDERS AND VISCOUS DAMPERS	**Andrea Roncari, Blériot V. Feujofack K., Cristiano Loss** Modal Response Spectrum Analysis of Cross-Laminated Mid-Rise Timber Buildings Equipped with Multiple Shear Slotted-In Steel Plates Connections	**Ivana Katurić, Sven Simov, Mario Gregar** Pristup integriranoj urbanoj revitalizaciji Urbane aglomeracije Zagreb nakon potresa 2020. godine
	Zhivko Bozhinovski, Golubka Necevska-Cvetanovska, Roberta Apostolska, Elena Delova, Aleksandar Zlateski IZIIS Methodology for Design, Repair and Strengthening of Earthquake Resisting Masonry and Reinforced Concrete Structures	**Davorin Penava, Lars Abrahamczyk, Filip Anić, Muhammad Hisham Al Hanoun, Melad Haweyou, Jochen Schwarz** The M6.4 Durrës (Albania) 2019 Earthquake Damages to Masonry Infilled RC Frame Buildings in Correlation with Shaking Table Tests	**Jelena RISTIC, Ragip BEHRAMI, Danilo RISTIC** UPGRADING OF ISOLATED BRIDGES WITH VERTICAL FIXED ENERGY DISSIPATION DEVICES: SHAKING TABLE SEISMIC TESTS	**Mladen Čosić, Radomir Folić** Modelling of Damping Effects in Soil-Structure Interaction for Pushover Analysis	**Mark Miščević** Urban Renewal of the City of Zagreb
	Mustafa Hrasnica, Senad Medic Seismic Response of Unreinforced Masonry Buildings from 1950's	**Amar Kadić, Senad Medić, Davorin Penava** Macromodel of reinforced concrete frame with masonry infill for detailed assessment of structural performance	**Benazir Ahmed, Kaustubh Dasgupta** SYSTEM-LEVEL SEISMIC FRAGILITY ASSESSMENT OF MULTISPAN CONTINUOUS INTEGRAL ABUTMENT BRIDGES	**Suzana Ereiz, Ivan Duvnjak, Domagoj Damjanović, Joško Krolo, Marko Bartolac** ANALYSIS OF SEISMIC ACTION OF THE TIE ROD SYSTEM IN HISTORICAL BUILDINGS	**Ivana Podnar, Iva Kostešić, Fedja Vukić** (De)construcion of urban identity – counter-image as symbolic capital
	Matea Sruk, Marija Demšić, Maja Baniček: Case-study of the out-of-plane wall failure of a typical downtown building in Zagreb	**Zoran Trajchevski, Golubka Nechevska-Cvetanovska** THE ROLE OF MASONRY INFILL IN SEISMIC BEHAVIOR OF RC BUILDINGS	**Emad Abraik** Examining the yielding displacement of pier bridges equipped with shape memory alloy rebars	**Yeraly Shokbarov , Gani Temiraliuly** EXPERT ASSESSMENT OF SEISMIC SAFETY OF BUILDINGS AND STRUCTURES IN ALMATY	**Jasna Grujoska, Veronika Shendova** THE ROLE OF ARCHITECT IN EARTHQUAKE PROTECTION OF CULTURAL HERITAGE
	Patricio Andrés Pineda Nalli: ANALYSIS OF THE INTENSITY TENSOR IN CHILE SUBDUCTION EARTHQUAKES		**Viktor Hristovski, Marija Vitanova, Nikola Hristovski** EXPERIENCES IN SEISMIC DESIGN OF STRUCTURAL BEARINGS AND EXPANSION JOINTS FOR RC BRIDGES ACCORDING TO EUROCODES		**Zora Maštrović, Marko Jambrek, Ljubomir Miščevi, Zdravko Živković** ANCIENT AND TRADITIONAL KNOWLEDGE OF THE EARTHQUAKE PROTECTION (An Insight into Why Maharishi Vastu Buildings Create an Influence of Invincibility)
			Iralda Xhaferaj, Neritan Shkodrani SEISMIC ASSESSMENT METHOD FOR EXISTING REINFORCED CONCRETE BRIDGES IN ALBANIA		**Željko Uhlir** Strateški pristup projektu obnove nakon potresa u Zagrebu i pravni okvir za provedbu
break	**Great hall - Chairmans: Marija Demšić & Petra Gidak**	**Room 121 - Chairman: Tomislav Kišiček**	**Room 218 - Chairman: Anđelko Vlašić**	**Room 216 - Chairman: Ana Skender**	**Faculty hall - Chairman: Tihomil Matković**
	Session 4A - Seismic Performance of Structures (non structural)	**Session 4B - Seismic Performance of Structures (RC frames)**	**Session 4C - Seismic Performance of Structures (bridges)**	**Session 4D - Seismic Performance of Structures (seismic isolation)**	**Session 4E -Post Disaster Recovery and Reconstruction**
15:45 - 16:45	**Marko Marinković, Svetlana Brzev, Markel Baballëku, Brisid Isufi, Nikola Blagojević, Ivan Milićević** OUT-OF-PLANE BEHAVIOUR OF LOAD BEARING AND NON-STRUCTURAL MASONRY WALLS DURING RECENT EARTHQUAKES	**Francesco Pugliese, Luigi Di Sarno** Probabilistic Seismic Assessment of existing RC framed structures under earthquake sequences and exposed to pitting corrosion	**Gordana Hrelja Kovačević, Mladen Srbić, Ana Mandić Ivanković** Seismic performance of existing bridges in Croatia – shortcomings, hidden reserves and vulnerability assessment perspective	**Nikolin Hima, Maria Gabriella Castellano** SEISMIC ISOLATION OF BUILDINGS IN CROATIA	**Zrinka Barišić Marenić** Izazovi obnove Zagreba i okruženja nakon potresa 2020. godine
	Wilson Carofilis Gallo, Bryan Chalarca Echeverri Comparative study of estimation methodologies for the seismic demand on acceleration-sensitive nonstructural elements	**Aleš Jamšek, Matjaž Dolšek** Improved fish-bone model: a simplified structural model for seismic analysis of older and contemporary reinforced concrete frames	**Nina Čeh, Han Qin, Gordan Jelenić, Luyu Li** Modes of oscillation of long-span structures subjected to multiple support earthquake excitation	**Milovan Stanojev, Radomir Folić** COMPARATIVE BEHAVIOUR ANALYSIS OF FIXED AND BASE ISOLATED RC BUILDING DURING SEISMIC EVENT	**Nives Škreblin i Sanja Jerković** Baza potres
	David Antolinc, Vlatko Bosiljkov Seismic behaviour and design provisions for contemporary masonry chimney systems	**Borjan Petreski, Igor Gjorgjiev** ANALYTICAL MODEL VERIFICATION FOR IMPROVED PERFORMANCE-BASED DESIGN OF MOMENT RESISTING FRAMES	**RISTIC Jelena, BEHRAMI Ragip, RISTIC Danilo** UNIFORM UPGRADING OF ISOLATED BRIDGES WITH VERTICAL MULTI GAP ENERGY DISSIPATION DEVICES: SEISMIC SHAKING TABLE TESTS	**George TARANU, Nicolae TARANU, Ionut-Ovidiu TOMA** Shake Table test of a Structural Model made of Glass Fiber Reinforced Mineral Matrix Composite	**Krunoslav Katić** Comparative analysis of Damage Assessment processes practiced in 2019/2020 Mamurras, Zagreb and Petrinja earthquakes
	Lidija Krstevska , Aleksandra Bogdanovic, Robert Rimboeck, Angela Poposka, Filip Manojlovski, Antonio Shoklarovski, Igor Markovski, Nikola Naumovski , Dejan Filipovski Shake table tests for seismic assessment of nonstructural elements	**Besar Abdiu, Golubka Nechevska-Cvetanovska** Comparative analysis of Eurocodes and Macedonian Codes - in terms of an example RC frame structure	**Mladen Bulić, Mehmed Čaušević** Retrofit of Bridges for an Earthquake Resilient Society	**Maria Gabriella Castellano** SEISMIC ISOLATION OR SUPPLEMENTAL ENERGY DISSIPATION FOR SEISMIC RETROFIT OF BUILDINGS	**Ivica Skender** ArcGIS in earthquake preparedness, response and reconstruction
	Matthias Roik, Caroline Piesker, Samuel Hine Technical Recommendations for Fixing of Façades in Seismic Zones	**Rafael Ramirez Eudave, Tiago Miguel Ferreira** Proposal for a suitable workflow for assessing the seismic vulnerability of historical buildings. Atlixco (Puebla, México) as a case study	**Arben Kulloraj** INTEGRATED EARTHQUAKE ALARM SYSTEM FOR MONITORING THE BRIDGES AND ROADS BY SFG-0 SENSOR AND RDM SENSOR	**Ferit Gashi , Franco Bontempi, Francesco Petrini** Component Tests, Fracture Simulation, and Experimental Study on Steel Damper for passive energy dissipation	
	Caroline Piesker, Matthias Roik, Samuel Hine Rehabilitation and Strengthening Methods for Masonry Façades				
break	**Great hall - Chairman: Nenad Bijelić**				
17:00 - 18:30	**Keynote lecture** **Abhineet Gupta** Probabilistic seismic risk and resilience assessment				
	Keynote lecture **Ting Lin** Multi-Hazard Sustainability (HazSus): From Earthquake to Climate Science and Engineering				

DAY 3 - Wednesday 24th March 2021

9:00 - 11:00	**Great hall - Chairman: Iva Dasović**			**Room 216 (in Croatian) - Chairman: Mario Uroš** **Keynote practice lectures**	**Faculty hall** **Special Session II - Ambassador session (chairman Josip Atalić)** **(under auspice of Embassy of Italy in Zagreb)**
	Keynote lecture **Neritan Shkodrani** Engineering characteristics of ground shaking and some aspects of soil liquefaction during Durres earthquake			**Ljupko Perić** Modal pushover analysis as an alternative to the RSA and NTHA	**Opening of special ambassador session**
	Keynote lecture **Ina Cecić** The role and importance of historical earthquakes and macroseismological studies			**Berislav Borovina** Examples of modern structural rehabilitation of cultural heritage	**Satoru Nishikawa** Institutional Development of Earthquake Disaster Reduction and Fostering the Culture of Prevention, hints from the Japanese Experience
	Keynote lecture **Marijan Herak** 110 years of engineering seismology and earthquake engineering in Croatia				**break**
break	**Great hall - Chairman: Marija Mustać**	**Room 121 - Chairman: Mario Bačić**	**Room 218 - Chairmans: Mladen Meštrović & Tomislav Kišiček**	**Room 216 - Chairman: Mislav Stepinac & Senad Medić**	**Kamal Kishore** Building Disaster and Climate Resilient Infrastructure in 21st Century: oportunities and challanges
	Session 5A - Engineering and General Seismology	**Session 5B - Geo-aspects of Earthquake Engineering**	**Session 5C - Seismic Performance of Structures (behaviour)**	**Session 5D - Seismic Performance of Structures (practice selected)**	
11:30 - 13:00	**Radmila Salic, Zoran Milutinovic, Daniel Tomic, Jovan Trajcevski, Mirko Dimitrovski, Zabedin Neziri** Seismic Hazard Zonation and Seismic Design Codes. A Regional Perspective.	**Tsutomu Ochiai, Takahisa Enomoto, Shigeki Senna** Study of ground amplification characteristics by strong motion and microtremor observations - A simple study on ground nonlinearity by equivalent linear analysis	**Ahmad Naqi, Taiki Saito** Performance of a buckling-restrained braced RC high-rise building under successive application of wind-earthquake scenarios	**Mario Uroš, Marija Demšić, Marta Šavor Novak, Josip Atalić, Maja Baniček** Case-study of a typical residential building in the Lower town district of the city of Zagreb, Croatia	**Anže Babič, Jure Žižmond, Aleš Jamšek, Matjaž Dolšek** Seismic stress test of building stock in Slovenia
	Irena Gjorgjeska GEOPHYSICAL SITE CHARACTERIZATION FOR STRONG MOTION STATIONS. A CASE STUDY IN NORTH MACEDONIA	**Julijana Bojadjieva, Kemal Edip, Vlatko Sheshov, Irena Gjorgeska, Toni Kitanovski, Dejan Ivanovski, Borce Veljanovski** IZIIS in situ Geo Laboratory	**João Alves, Ildi Cismasiu, Teresa Santana** Seismic performance of a RC building founded on soft stratified soils	**Veronika Shendova, Aleksandar Zlateski, Goran Jekic** INOVATIVE TECHNIQUE FOR SEISMIC RETROFITTING OF TRADITIONAL MASONRY BUILDINGS	**break**
	Naida Ademovic, Snježana Cvijić-Amulić Data analysis for national parameters in compliance with EC8 in Bosnia and Herzegovina	**Kemal Edip, Vlatko Sheshov, Julijana Bojadjieva, Irena Gjorgjeska, Toni Kitanovski, Dejan Ivanovski** Pore pressure effects in seismic simulation of an earth dam	**Ivan Kraus, Ana Perić, Jelena Kaluđer, Lucija Kraus** Seismic behavior of traditional Croatian earth architecture: a case study	**Lampros Koutas, Christos Papakonstantinou** TEXTILE-REINFORCED GEOPOLYMER MORTAR FOR STRENGTHENING REINFORCED CONCRETE ELEMENTS: PILOT STUDY ON MORTAR DEVELOPMENT	**Marco Di Ludovico** Post-eartquake damage assessment and experiences after recent Italian eartquakes on reconstruction and population assistance costs
	Snježan Prevolnik, Snježana Markušić, Ines Ivančić Strong ground motion records of the Zagreb earthquake of 22 March 2020	**Nicola Rossi, Mario Bačić, Meho Saša Kovačević** Evaluation of seismic resilience of levees through development of fragility curves	**Nikola Vladimir, Ivo Senjanovic** Seismic design of emergency machinery foundation for nuclear power plants	**Engin Cuneyt Seyhan** PRACTICAL APPLICATIONS OF FIBER REINFORCED POLYMERS IN RETROFITTING OF RC AND MASONRY STRUCTURES	
	Helena Latečki, Josip Stipčević, Irene Molinari Seismic shaking scenarios for city of Zagreb, Croatia	**Piotr Kowalczyk** New insight on seismic soil-structure interaction: amplification of soil generated high frequency motion on a kinematic pile	**George Papagiannopoulos, Foteini Konstandakopoulou, George Hatzigeorgiou, Nikos Pnevmatikos, Panagiota Katsimpini** On the seismic behavior of steel buildings, designed according to Eurocode 8 provisions, when subjected to near-fault or to long duration seismic motions	**Naser Kabashi, Enes Krasniqi, Milot Muhaxheri** A TYPICAL COLUMN FAILURE IN 2019 ALBANIA EARTHQUAKE AND A RETROFITTING STRATEGY	
	Marijan Herak, Davorka Herak, Mladen Živčić Which one of the three latest large earthquakes in Zagreb was the strongest – the 1905, 1906 or the 2020 one?	**Tvrtko Korbar, Snježana Markušić, Davor Stanko, Davorin Penava** PETRINJA M6.2 EARTHQUAKE IN 2020 DAMAGED ALSO SOLID LINEAR INFRASTRUCTURE: ARE THERE SIMILAR ACTIVE FAULTS IN CROATIA?	**Roberta Apostolska, Adamantia ATHANASOPOULOU, Maria Luisa Sousa, Silvia Dimova** Adoption and implementation of Eurocode 8 as national standard for seismic design in the Balkan countries	**Marko Dabrović** VOLUM3 Collaboration platform	**Sudhir K. Jain** Some Challenges and Opportunities for Seismic Safety: A Perspective from India
	Miklos Kazmer, Rosana Škrgulja The 4th century Siscia earthquake – archaeoseismological evidence	**Nikola Naumovski, Viktor Hristovski , Lidija Krstevska** In-situ measurments and numerical modeling of railway traffic-induced ground vibrations in urban areas	**Frančeska Brkić, Mario Uroš** Seismic analysis of the stone masonry building in the Korčula archipelago	**Jasna Šimunec, Samoborka d.d.** Sanacije i ojačanja u protupotresnoj obnovi	
			Ionut Ovidiu Toma, George TARANU, Petru Mihai, Nicolae TARANU, Mihai BUDESCU, Mihai-Sergiu ALEXA-STRATULAT Shake-table tests to assess the behavior of structural systems under seismic excitations	**SPEGRA** Partner suvremene obnove	
13:00 - 14:00	**Lunch break**				**break**

	Great hall - Chairman: Iva Dasović	**Room 121 - Chairman: Meho Saša Kovačević**	**Room 218 - Chairman: Mislav Stepinac & Zvonko Sigmund**	**Room 216 - Chairman: Ana Baričević**	**Faculty hall**
	Session 6A - General session	**Session 6B Geo-aspects of Earthquake Engineering**	**Session 6C - Seismic Performance of Structures**	**Session 6D - Seismic Performance of Structures (practice selected)**	**Round table**
	Chiara Scaini, Valerio Poggi, Bojana Petrovic, Elisa Venturini, Stefano Parolai From seismic alert to near real-time products: an overview of OGS research activities and operational services in northeastern Italy	**Mario Bacic, Meho Sasa Kovacevic, Lovorka Libric, Petra Zuzul** Sinkholes induced by the Petrinja M6.2 earthquake and guidelines for their remediation	**Trajche Zafirov, Viktor Hristovski** BEHAVIOR OF RC FRAME STRUCTURES WITH ADDED FLOORS MADE OF DIFFERENT MATERIALS SUBJECTED TO SEISMIC LOADINGS	**Dimitar Jurukovski, Predrag Gavrilovic, Zoran Rakicevic, Aleksandra Bogdanovic** DESIGN PROCEDURE FOR COMPLEX STRUCTURES UNDER DYNAMIC LOADS	**Round table discusion: Representatives and Ambassadors from Embassy of Italy, Japan, India and Slovenia, representativs of World Bank**
	Dario Jozinović, Alberto Michelini, Ivan Štajduhar, Anthony Lomax Rapid prediction of earthquake ground shaking intensity using raw waveform data and a Convolutional Neural Network	**Glenda Abate, Sebastiano Corsico, Maria Rosella Massimino** The role of the soil heterogeneity in the seismic response of tunnel-soil systems	**ILIR HETEMI, Golubka Nechevska-Cvetanovska** LATERAL BEHAVIOR OF LOW AND MIDDLE RISE BUILDINGS WITH FLAT SLABS	**Predrag Gavrilovic, Dimitar Jurukovski, Zoran Rakicevic, Aleksandra Bogdanovic** Structural Design for Seismic Action, or Wind Action, or Bouth. Case Study	
	MOHELDEEN HEJAZI, Serra Tinbir, Pooya ghaffari khalifani, Ali Sari A MACHINE LEARNING FRAMEWORK FOR AUTOMATED GROUND MOTION PREDICTION	**Adriana Brandis, Ivan Kraus, Simon Petrovčič** Simplified method for modelling of compliant soil with comparison to experimental results	**Gabrijela Starešinič, Blaž Zoubek, Matija Gams, Tatjana Isaković, Matej Fischinger** In-plane seismic response of a fastening system for horizontal concrete cladding panels in RC prefabricated buildings	**Tomislav Kišiček, Mislav Stepinac, Tvrtko Renić, Ivan Hafner, Luka Lulić** Calculation of masonry in-plane shear strengthening	
14:00 - 15:30	**Tomislav Petrovski** SEISMIC MICROZONING PARAMETERS FOR URBAN DEVELOPMENT PLANNING BASED ON DAMAGE CONTROL CRITERIA	**Kemal Edip, Aleksandra Bogdanovic, Radmila Shalic, Marta Stojmanovska** Improved SSI analysis based on UHS time history selection	**Ivan Dimitrov, Golubka Nechevska-Cvetanovska** DISADVATAGES OF RC BUILDING STRUCTURES WITH A SOFT STOREY	**Drilona Disha, Hektor Cullufi** The impact of non-compliance with design rules according to code designs of structures in seismic areas	
	Rémy Bossu , Jean-Marc Cheny, Marina Corradini, Laure Fallou, Sylvain Julien-Laferrière, Matthieu Landès, Julien Roch, Frédéric Roussel , Robert Steed Rapid Public Earthquake Information: Lessons Learned from Croatian earthquake Sequence	**Jure Atanackov, Petra Jamšek Rupnik, Miloš Bavec, Jernej Jež, Bogomir Celarc, Vanja Kastelic, Blaž Milanič, Anže Markelj** Database of active faults in Slovenia: geologic input into seismic hazard assessment at national scale	**Ionut Ovidiu Toma, Ioana-Sorina Entuc, Ozana-Adnana Petcu, Nicolae Taranu, Aliz-Eva Mathe, George Taranu, Petru Mihai** Numerical investigations on the seismic performance of a scaled-down RC frame structure pre- and post-strengthening with composite membrane	**Dragan Manojlović, Đorđe Lađinović, Vladimir Vukobratović** Seismic Retrofit of an Existing Grammar School Masonry Building	
	Marija Mustać, Ina Cecić, Helena Latečki, Iva Dasović Social media as a tool for providing information following a hazardous event: „Zagrebački potres 2020 – vaše info za seizmologe“ Facebook group case	**Helene Hofmann, Armin Roduner, Vjekoslav Budimir** Slope stabilization in earthquake prone environment - the TECCO® System	**Milos Stokuca, Golubka Necevska-Cvetanovska** INFLUENCE OF PANELS ON BUILDING BEHAVIOR	**Elena Manzoni, Alberto Dusi** STUDIES AND INTERVENTION ON ROCCA OF SISSA	
			Miloš Čokić, Boris Folić, Radomir Folić ROBUSTNESS AND FRAGILITY OF THE RC BUILDING DESIGNED ACCORDING TO YU-81 AND EUROPEAN STANDARDS	**Janko Šemnički, Baumit** Sicuro program za protupotresno ojačanje	
			Ion Sococol, Petru Mihai, Nicolae TARANU, Ionut Ovidiu Toma, Mihai BUDESCU AN ALTERNATIVE APPROACH TO IMPROVE THE CAPACITY DESIGN CONCEPT FOR MOMENT RESISTING REINFORCED CONCRETE (RC) FRAME SYSTEMS		**Sponsors** Samoborka / Spegra / Baumit / Mapei / MC Bauchemie
break	**Great hall - Chairmans: Mislav Stepinac & Sonja Zlatović**	**Room 121 - Chairman: Lovorka Librić**	**Room 218 - Chairmans: Ivo Haladin & Ivana Krišto**	**Room 216 - Chairman: Tomislav Kišiček**	**Faculty hall**
	Session 7A - Join Session Lessons Learnt from Earthquakes and Earthquake Risk Mitigation Policies and Management	**Session 7B- Geo-aspect of Earthquake Engineering**	**Session 7C - Immediate Post-Disaster Response**	**Session 7D - Seismic Performance of Structures (practice selected)**	**Presentation of a book**
	Nina Serdar, Jelena Pejovic 40 years after Montenegrian earthquake : leasons learned and future chalanges	**Božo Padovan, Laszlo Podolszki, Tomislav Novosel, Igor Sokolić, Ivica Sović, Ivan Kosović, Nina Pivčević** Seismic and geological zonation of the part of the City of Zagreb area	**Ivo Haladin, Mislav Stepinac, Mateo Gašparović, Nenad Trifunović, Milan Domazet** Rapid post-earthquake damage assessment platform based on UAV and GIS	**Shala Alush, Jelena Bleiziffer** Assessment, repair, rehabilitation and strengthening of earthquake-damaged buildings	
	Marina Poposka, Dragi Dojcinovski, Marta Stojmanovska, Irena Gjorgjeska, Goran Chapragoski MAVROVO EARTHQUAKE, EXPERIENCE AND DYNAMIC STRUCTURAL RESPONSE	**Petra Jamšek Rupnik, Jure Atanackov, Miloš Bavec** Paleoseismological evidence for large past earthquakes on reverse and strike-slip faults in Slovenia: Examples from the Idrija and Vodice faults	**Mario Dobrilović, Vječislav Bohanek** ROLE OF BLASTING TEHNOLOGY IN REMOVAL OF THE PART OF NORTHERN TOWER OF ZAGREB CATHEDRAL	**Marko Iveković, Mapei** Ojačanje konstrukcija korištenjem kompozitnih materijala	
	Azin Shahkar, Caner Gocer, Oguz C. Celik Overview of Post-Earthquake Housing Alternatives for Enhanced Architectural and Structural Performances	**Irena Gjorgjeska, Vlatko Sheshov, Kemal Edip, Julijana Bojadjieva** Combined seismic methods for 3D modeling of quarternary deposits: application to Skopje sedimentary basin	**Tihomir Tandarić, Mladen Fusić** Croatian army and natural disasters	**Zlatko Džanić, Mustafa Hrasnica, Senad Medić** Optimization of the Reinforced Concrete Structural Systems Under Seismic Load	
15:45 - 17:00	**Sonja Zlatovic, Igor Gukov** EDUCATION OF FUTURE CIVIL ENGINEERS, CIVIL ENGINEERS, COLLEAGUES OF OTHER PROFESSIONS AND PUBLIC	**Danijel Šugar, Željko Bačić** Kinematic effects of M5.5 Zagreb earthquake assessed by GNSS method supported by Galileo satellite system	**Marko Šimić, Zvonko Sigmund** The role of military forces in crisis - example of Zagreb earthquake 2020	**Antonio Badžim, MC Bauchemie** Sanacija starih građevina	**Presentation of a new book created after the Zagreb 2020 earthquake, which gathered most of the knowledge needed for a successful reconstruction (in croatian)** **Editors Mario Uroš, Mario Todorić, Milan Crnogorac, Josip Atalić, Marta Šavor Novak, Stjepan Lakušić**
	Ljubomir Mišćević THE SENDAI FRAMEWORK UNTIL 2030 AND EXPERIENCES AFTER THE EARTHQUAKE DESASTER IN CROATIA 2020	**Mladen Viher, Ivona Žiža, Branimir Radun, Ivan Tomljenović, Matko Čvrljak Vladimir Kušan, Josip Vuković, Lana Knežević** GEOINT in Natural and Technical Disasters	**Igor Magdalenić, Dijana Paljug** MODERN TECHNOLOGIES IN SUPPORT OF THE CIVIL PROTECTION SYSTEM	**Davor Uglešić, Ante Uglešić:** Structural Natural Frequencies Assessment and Application in SHM and the Calibration of FEM Models	
	Josip Atalić, Marta Šavor Novak, Mario Uroš, Marija Demšić, Maja Baniček, Petra Gidak, Tea Žagar, Damir Lazarević Earthquake Engineering in Croatia: new perspective after 2020 earthquakes	**Tomislav Gregurić, Matija Orešković, Alberto Pasquetto, Eda Fett** Povećanje potresne otpornosti ojačanjem temeljnog tla objekata	**Milošević Sanda** THE ROLE OF CIVIL PROTECTION DIRECTORATE DURING THE EVACUATION OF MOVABLE CULTURAL HERITAGE IN SISAK-MOSLAVINA COUNTY AFTER THE EARTHQUAKE IN DECEMBER 2020	**Davor Uglešić, Ante Uglešić** Reinforcement of Stone Masonry Walls with Carbon Fibers Textile and Tapes	
		Han Yang, Hexiang Wang, and Boris Jeremić Seismic Energy Propagation and Dissipation in Earthquake Soil Structure Interaction Systems	**Ivo Haladin, Katarina Vranešić, Mate Ivančev, Stjepan Lakušić** Influence of Tram Vibrations on Earthquake Damaged Buildings	**Anjeza Gjini, Hektor Cullufi, Princ Xhika** Structural analysis of a RC building failure caused by the earthquake of 26th November in Durrës, Albania	
	Great hall - Chairman: Mario Bačić				
17:00 - 18:30	**Keynote lecture** **Mladen Vučetić** REVIEW OF CYCLIC SOIL BEHAVIOR AND INPUT PARAMETERS FOR SEISMIC SITE RESPONSE ANALYSES AND LIQUEFACTION				
	Keynote lecture **Vlatko Shesov** Experimental investigation on seismic performance of pile foundation				
19:00	**Closing ceremony**				