



# 4th European Regional Conference of IAEG

Dubrovnik, 08-12 October 2024, Croatia, Hotel Dubrovnik Palace



## Conference

# PROGRAMME

**Engineering Geology  
and Geotechnics:  
Building for the Future**



TIME	Day 01 / Tuesday, October 8 <sup>th</sup>	
09:00 10:30	<b>Executive Board Meeting</b> (Luna Conference Room)	<b>Workshop - WS1: Guidelines for Engineering Geological Models</b> (Dubrava Conference Hall)
10:30 11:00	<b>Coffee Break</b> (Conference center lobby)	
11:00 12:30	<b>Executive Board Meeting</b> (Luna Conference Room)	<b>Workshop - WS1: Guidelines for Engineering Geological Models</b> (Dubrava Conference Hall)
12:30 13:30	<b>Lunch Break</b> (Main hotel restaurant)	
13:30 15:30	<b>Executive Board Meeting</b> (Luna Conference Room)	<b>Workshop - WS1: Guidelines for Engineering Geological Models</b> (Dubrava Conference Hall)
15:30 16:00	<b>Coffee Break</b> (Conference center lobby)	
16:00 18:00	<b>Executive Board Meeting</b> (Luna Conference Room)	<b>Workshop - WS1: Guidelines for Engineering Geological Models</b> (Dubrava Conference Hall)
20:00 23:00	<b>Executive Board Dinner</b> (Dubrovnik Old Town, Posat Restaurant, transportation pick up at 19.00)	



TIME	Day 02 / Wednesday, October 9 <sup>th</sup>	
09:00 10:30	<b>Council Meeting</b> (Mare, Section 1)	<b>Workshop - WS2: Preparing a manuscript for an international scientific journal: What editors and reviewers look for</b> (Mare, Section 4)
10:30 11:00	<b>Coffee Break</b> (Conference center lobby)	
11:00 12:30	<b>Council Meeting</b> (Mare, Section 1)	<b>Workshop - WS2: Preparing a manuscript for an international scientific journal: What editors and reviewers look for</b> (Mare, Section 4)
12:30 13:30	<b>Lunch Break</b> (Main hotel restaurant)	
13:30 15:30	<b>Council Meeting</b> (Mare, Section 1)	<b>Registration of the Participants</b> (Hotel Lobby, reception level)
15:30 16:00	<b>Coffee Break</b> (Conference center lobby)	
16:00 17:30	<b>Council Meeting</b> (Mare, Section 1)	<b>Welcome Cocktail</b> (Hotel Palace Terrace by the see)
17:30 19:00		
20:00 23:00		<b>Council Dinner</b> (Hotel Dubrovnik Palace)

## Gold Sponsors



TIME	Day 03 / Thursday, October 10 <sup>th</sup>			
08:00 09:00	<b>Registration of the Participants</b> (Hotel Lobby, reception level)			
09:00 10:30	<b>Opening Ceremony, Awarding Ceremony</b> (Mare, Section 1)			
10:30 11:00	<b>Richard Wolters Prize 2022 Lecture - Jennifer Day -</b> The important partnership of engineering geology in geomechanics and geohazards (Mare, Section 1)			
11:00 11:30	<b>Coffee Break</b> (Conference center lobby)			
11:30 12:00	<b>Keynote Lecture - Alexander Puzrin -</b> Landslide influence zone - a hidden hazard (Mare, Section 1)			
12:00 12:30	<b>Hans Cloos Medal 2024 Lecture - Niek Rengers - Video presentation</b> (Mare, Section 1)			
12:30 13:30	<b>Lunch Break</b> (Main hotel restaurant)			
13:30 15:00	<b>Site Investigation and Characterization for Sustainable Infrastructure Development</b> (Mare, Section 1)	<b>Emerging Technologies and Applications in Engineering Geology and Geotechnics</b> (Mare, Section 3)	<b>Geo-Aspects of Earthquake Engineering</b> (Mare, Section 4)	<b>Workshop - Ws3: Current research and developments in aggregates, IAEG C17 Open Meeting</b> (Luna Conference Room)
15:00 15:30	<b>Coffee Break</b> (Conference center lobby)			
15:30 17:00	<b>Geohazard Assessment and Risk Mitigation for Infrastructure Projects</b> (Mare, Section 1)	<b>Engineering Geology for the Society</b> (Mare, Section 3)	<b>Engineering Geology and Cultural Heritage Protection</b> (Mare, Section 4)	<b>Workshop - Ws3: Current research and developments in aggregates, IAEG C17 Open Meeting</b> (Luna Conference Room)
13:30 17:00	<b>POSTER SESSION</b> (Mare, Section 2) <b>Site Investigation and Characterization for Sustainable Infrastructure Development</b> <b>Emerging Technologies and Applications in Engineering Geology and Geotechnics</b> <b>Geo-Aspects of Earthquake Engineering</b> <b>Engineering Geology for the Society</b> <b>Engineering Geology and Cultural Heritage Protection</b>			
20:00 23:00	<b>60 years of IAEG Celebration Dinner</b> (Hotel Dubrovnik Palace)			

TIME	<b>Day 03 / Thursday, October 10<sup>th</sup></b>	
13:30 15:00	<b>Site Investigation and Characterization for Sustainable Infrastructure Development</b> (Mare, Section 1), Moderators: Marco Pola and Josip Terzić	
	ID	Paper Title / <b>Author(s)</b>
13:30 13:45	124	PARAMETERS OF OVERCONSOLIDATION OF JURASSIC CLAY SOILS IN THE MOSCOW REGION, <b>Vladimir Matveev, Violetta Shanina</b>
13:45 14:00	137	QUANTIFYING URBAN DAMAGE DUE TO SLOW-MOVING LANDSLIDES: A MULTI-INSTRUMENT AND MULTI-DISCIPLINARY APPROACH, <b>Davide Notti, Martina Cignetti, Davide Cardone, Dario Peduto, Gianfranco Nicodemo, Davide Luongo, Rossella Bovolenta, Bianca Federici, Diego Reale, Simona Verde, Fabiana Calò, Eugenio Sansosti, Gianfranco Fornaro, Daniele Giordan</b>
14:00 14:15	171	COLLAPSE OF THE SCHIEBURG TUNNEL IN LUXEMBOURG: GEOLOGICAL CAUSES AND EMERGENCY SECURING WORKS, <b>Steve Gruslin, Tiffany Hennebaut</b>
14:15 14:30	190	INTACT ROCK STRENGTH AND ELASTIC PARAMETERS FOR ROCK TYPES IN KIRUNA AND MALMBERGET MINES <b>Nikolaos Grendas, Matthew Mawson, Thomas Wettainen, Anna Kyriakidou</b>
14:30 14:45	196	INVESTIGATIONS IN MINING PROJECTS - INNOVATION CHALLENGES <b>Marcio Leão, Simmon Souza, Luiz Mota, Eduardo Marques</b>
14:45 15:00	278	VIRTUAL OUTCROP RECONSTRUCTION FOR HYDROGEOLOGICAL PARAMETRIZATION (DARUVAR, CROATIA), <b>Ivan Kosović, Marco Pola, Josip Terzić, Kosta Urumović, Staša Borović, Bojan Matoš, Andrea Bistacchi, Silvia Mittempergher, Stefano Casiraghi, Gabrielle Benedetti</b>

13:30 15:00	<b>Emerging Technologies and Applications in Engineering Geology and Geotechnics</b> (Mare, Section 3), Moderators: Fanny Descamps and Nicola Rossi	
	ID	Paper Title / <b>Author(s)</b>
13:30 13:45	111	A MECHANICALLY STABILIZED EARTH WALL DESIGN IN A HIGH SEISMIC REGION (TÜRKIYE) <b>Ceren Demirel Deliktas, Abdullah Onur Ustaoglu, Candan Gokceoglu</b>
13:45 14:00	135	A NON-PARAMETRIC CHANGE DETECTION METHOD FOR ROCKFALL MONITORING <b>Ioannis Farmakis, Davide Ettore Guccione, Klaus Thoeni, Anna Giacomini</b>
14:00 14:15	163	DEVELOPMENT OF A MEDICANE-INDUCED LANDSLIDE INVENTORY; CASE STUDY OF 2023 CYCLONE DANIEL, CENTRAL GREECE <b>Sotiris Valkaniotis, Maria Taftoglou, George Papathanasiou, Domna Samara, Caterina Zei, Themistoklis Chatzitheodosiou</b>
14:15 14:30	203	CORRELATION BETWEEN JOINT ROUGHNESS COEFFICIENT (JRC) AND STATISTICAL ROUGHNESS PARAMETERS <b>Tégawendé Nikiema, Nicolas Gonze, Fanny Descamps</b>
14:30 14:45	230	EVALUATING TECHNICAL AND ECONOMICAL ASPECTS OF CONVENTIONAL AND MTBM METHODS FOR DAM DIVERSION TUNNELS - THE CASE OF THE TRIANTAFYLLIA DAM, <b>Christina Ntemiroglou, Vasilis Marinos, Sera Lazaridou</b>
14:45 15:00	238	PREDICTING ROCK TYPE AND QUALITY FROM MWD DATA IN EXPLORATORY DRILLHOLES - FOCUSING ON GEOLOGIC TRANSITION ZONES <b>Tom F. Hansen, Zhongqiang Liu</b>

TIME		<b>Day 03 / Thursday, October 10<sup>th</sup></b>	
13:30 15:00		<b>Geo-Aspects of Earthquake Engineering</b> (Mare, Section 4), Moderators: Meho Saša Kovačević and Lovorka Libric	
	ID	Paper Title / <b>Author(s)</b>	
13:30 13:50	103	SEISMIC RESPONSE OF NEIGHBORING STRUCTURES IN LIQUEFIABLE SOIL <b>Ioannis Anastasopoulos</b>	
13:50 14:00	121	COMPARATIVE SOIL LIQUEFACTION ANALYSES BASED ON MULTIPLE INVESTIGATIONS METHODS <b>Mihaela Stanciucu, Adrian Diaconu, Iuliana Dogaru, Irina Mircea</b>	
14:00 14:10	160	ACCOUNTING FOR SITE EFFECTS IN THE ASSESSMENTS OF SUSCEPTIBILITY TO CO-SEISMIC SLOPE FAILURES IN HILLTOP TOWNS OF THE SOUTHERN APENNINES, <b>Flaviana Fredella, Vincenzo Del Gaudio, Nicola Venisti, Paola Capone, Janusz Wasowski</b>	
14:10 14:20	165	CORRELATING THE SPATIAL DISTRIBUTION OF LIQUEFACTION PHENOMENA WITH THE SURFICIAL GEOLOGY ON POINT BARS DEPOSITS; CASE STUDIES 2021 DAMASI, GREECE AND 2023, KAHRAMANMARAŞ, TÜRKIYE <b>Maria Taftoglou, Sotiris Valkaniotis, George Papathanassiou, Vassilis Ntouvartzis, Riccardo Caputo</b>	
14:20 14:30	224	ASSESSING THE LIQUEFACTION EJECTA POTENTIAL BASED ON CPTU; CASE STUDY PINIADA VALLEY, GREECE <b>George Papathanassiou, Lydia Goerlok, Sotiris Valkaniotis, Maria Taftoglou</b>	
14:30 14:40	226	LARGE SCALE ASSESSMENT OF THE LIQUEFACTION POTENTIAL USING THE CONE PENETRATION TESTING (CPT): EXAMPLE OF SISAK - MOSLAVINA COUNTY IN CROATIA <b>Meho Saša Kovačević, Davor Garašić, Mario Bačić, Marijan Car</b>	
14:40 14:50	245	DESIGN AND CONSTRUCTION FOR REHABILITATION OF EARTHQUAKE DAMAGED WATER PROTECTION LEVEES - METHODOLOGY AND SOLUTIONS <b>Ivan Mihaljević, Berislav Rupčić, Marko Kaić, Goran Grget, Leo Matešić</b>	
14:50 15:00	268	REMEDICATION OF THE EARTHQUAKE - INDUCED COLLAPSE SINKHOLES IN SISAK - MOSLAVINA COUNTY <b>Meho Saša Kovačević, Mario Bacic, Ivan Cosic, Tomislav Skegro, Igor Tomasevic</b>	

## Silver Sponsors



TIME	<b>Day 03 / Thursday, October 10<sup>th</sup></b>	
15:30 17:00	<b>Geohazard Assessment and Risk Mitigation for Infrastructure Projects</b> (Mare, Section 1), Moderators: Mario Bacic and Kosta Urumovic	
	ID	Paper Title / <b>Author(s)</b>
15:30 15:45	131	KINEMATIC AND BLOCK THEORY ANALYSIS IN DOLOMITIC ROCKMASS FOR DAM-SITE STABILITY, <b>Sanjeev Regmi, Ranjan Kumar Dahal</b>
15:45 16:00	250	LANDSLIDE SUSCEPTIBILITY TO RAINFALL AT A NATIONAL SCALE IN NEPAL WITH EMPHASIS ON EARLY WARNING <b>Ananta Man Singh Pradhan, Suchita Shrestha, René Kahnt</b>
16:00 16:15	252	LANDSLIDE HAZARD MANAGEMENT IN GREECE: THE NATIONAL LANDSLIDE DATABASE AS A MITIGATION TOOL <b>Atalia Spanou, Emmanuel Apostolidis, Katerina Kavoura, Foteini Panagiotidou, Ieronymakis Vasileios, Panagiota Kokkali, Nikolaos Nikolaou, Garyfalia Konstantopoulou, Panagiotis Paschos, Alexandros Kepas</b>
16:15 16:30	257	SOIL INVESTIGATIONS AS A CORNERSTONE FOR GEOTECHNICAL DESIGN OF LIQUEFACTION MITIGATION MEASURES BELOW LEVEES <b>Mario Bacic, Katarina Andacic, Kenneth Gavin, Kosta Urumovic</b>
16:30 16:45	259	INVESTIGATION AND REINFORCEMENT OF A WEATHERING INDUCED ROCK FALL EVENT, <b>Ömer Ündül, Mohammad Manzoor Nasery, Gökhan Şans</b>
16:45 17:00	263	MINIMIZATION OF BLASTING-INDUCES VIBRATIONS IN A METAL MINE USING SURFACE WAVE MITIGATION <b>Güzin Gülsev Uyar Aksoy, Cemalettin Okay Aksoy, Ozan Savas</b>

15:30 17:00	<b>Engineering Geology for the Society</b> (Mare, Section 3), Moderators: Ranjan Kumar Dahal and Ivan Kosović	
	ID	Paper Title / <b>Author(s)</b>
15:30 15:45	127	THE INTEGRAL ROLE OF ENGINEERING GEOLOGISTS IN DISASTER RISK COMMUNICATION, <b>Ranjan Kumar Dahal</b>
15:45 16:00	151	EXPLORING THE EFFECT OF TEMPERATURE ON A CASCADING HAZARD: PROJECTING THE 2021 MELAMCHI FLOOD TO A WARMER CLIMATE <b>Om Prasad Dhakal, Marco Loche, Ranjan Kumar Dahal, Gianvito Scaringi</b>
16:00 16:15	210	THE 2023 LANDSLIDES AND ENGINEERING GEOLOGICAL RESPONSE IN AUCKLAND, NEW ZEALAND <b>Ross Christopher Roberts, Kuanjin Lee, Rebekah McLelland, Martin Brook</b>
16:15 16:30	279	SURFACE GEOPHYSICAL INVESTIGATION OF NATURAL THERMAL SPRING AREA IN DARUVAR, CROATIA <b>Pola, Marco; Kosović, Ivan; Terzić, Josip; Urumović, Kosta; Matoš, Bojan; Borović, Staša</b>
16:30 16:45	295	THE LAST 10 YEARS OF GEOSCIENCES ENGINEERING EDUCATION IN TURKEY <b>Güzin Gülsev Aksoy, Cemalettin Okay Aksoy, A. Alper Uyar</b>
16:45 17:00	311	ENGINEERING GEOLOGY FOR THE SOCIETY: EXAMPLES FROM ZAGREB CITY AREA, CROATIA <b>Laszlo Podolszki, Tomislav Novosel</b>

TIME		<b>Day 03 / Thursday, October 10<sup>th</sup></b>	
15:30 17:00		<b>Engineering Geology and Cultural Heritage Protection</b> (Mare, Section 4), Moderators: George Papathanassiou and Davor Garašić	
	ID	Paper Title / <b>Author(s)</b>	
15:30 15:45	145	PORE STRUCTURE EVOLUTION IN ANDESITE ROCKS INDUCED BY FREEZE-THAW CYCLES EXAMINED BY NON-DESTRUCTIVE METHODS <b>Martin Maľa, Vladimír Greif, Martin Ondrášik</b>	
15:45 16:00	159	ROCKFALL HAZARD EVALUATION IN A CULTURAL HERITAGE SITE: CASE STUDY OF AGIA PARASKEVI MONASTERY, MONODENDRI, GREECE <b>Spyros Papaioannou, George Papathanassiou, Vassilis Marinos</b>	
16:00 16:15	189	THREE-DIMENSIONAL MODELLING FOR THE DELINEATION OF HAZARD ZONES ON ROCKY SLOPES IN AREAS OF ARCHAEOLOGICAL INTEREST <b>Emmanouil Chatziangelis, Nikolaos Depountis, Panagiotis Pelekis</b>	
16:15 16:30	300	ROCKFALL RISK ASSESSMENT USING 3D ANALYSES, A CASE STUDY FROM A CULTURAL HERITAGE SITE IN GREECE <b>Charalampos Saroglou, Vasileios Kallimogiannis</b>	
16:30 16:45	321	THE VERSAILLES GRAND CANAL: A GEOTECHNICAL ENQUIRY, III <b>Jean-David Vernhes, Réjanne Le Bivic, Annick Heitzmann</b>	
16:45 17:00	338	SAFEGUARDING "SHIPWRECK": ASSESSING ROCKFALL RISKS ON THE WORLD-FAMOUS BEACH IN ZAKYNTHOS ISLAND, GREECE <b>Vassilis Marinos, Themistoklis Chatzitheodosiou, Ioannis Farmakis, Dimitra Papouli, Athina Tsirogianni</b>	





TIME

**Day 03 / Thursday, October 10<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Site Investigation and Characterization for Sustainable Infrastructure Development**

ID	Paper Title / <b>Author(s)</b>
105	Correlation of Rock Mass Rating (RMR), Q-system and Geological Strength Index (GSI) in Pre-Cambrian Dolomite based on field data <b>Pusker Raj Joshi, Milan Kharel, Ashok Poudel</b>
179	Geomechanical characterization and geotechnical inputs for Sarıçay Dam <b>Başer, Görkem; Koçbay, Ayhan; Şentürk, Yalçın</b>
198	Design optimization of piles in weak carbonate rocks - a value engineering case study, Dubai - UAE <b>Khaleel, Mohammed Musthafa; Ahmed, Mohammed Jalaluddin; Jacob, Kurian</b>
237	Characterisation of embankment on soft ground in the Netherlands <b>Gavin, Ken; de Gast, Tom; Bacic, Mario; Kovacevic, Meho Sasa; Reale, Cormac</b>
248	About geotechnical investigations of a salt dome in the foundation ground of a motorway bridge <b>Milutinovici, Emilia Elena; Ballikaya, Erbil; Mihailescu, Daniel; Dragomir, Gabriela</b>
258	Importance of engineering geological investigation for construction of infrastructural objects <b>Copic, Marko</b>
294	Detection of fractured zones and caverns in Karst using geophysical methods at the location of Vizinada in Istria <b>Padovan, Bozo; Mejrusic, Valentino; Maricic, Marko; Miksic, Josip</b>
314	Sinkhole Havoc to a State of Disaster: Case Study into a Resettlement Plan for Khutsong North Community, Gauteng Province - South Africa <b>Msane, Bongani Cedrick; Ngubelanga, Sifiso</b>
315	DEM Super-Resolution for Photovoltaic Site Suitability Assessment <b>Ku, Jiyeon; Park, Hyeong-Dong</b>
336	Assessing Mechanical Properties of Quartzitic Materials and Shear Behavior of Quartzitic Joints with Reference to their Weathering Grades <b>Basu, Arindam</b>
339	Unstable Seepage Characteristics of Underlying Soft Clay Associated with Microscopic Mechanism in Reclamation Area: a Case Study <b>Yao, Meng; Wang, Qing; Yu, Qingbo; Chen, Jianping</b>
340	Design optimization of piles in weak carbonate rocks - a value engineering case study, Dubai - UAE <b>Khaleel, Mohammed Musthafa; Ahmed, Mohammed Jalaluddin; Jacob, Kurian</b>
341	High-Speed Identification of Complex Discontinuities in Large-Scale Rock Outcrops <b>Zhang, Wen; Han, Jiali; Chen, Jianping; Wang, Qing</b>

TIME

**Day 03 / Thursday, October 10<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Emerging Technologies and Applications in Engineering Geology and Geotechnics**

ID	Paper Title / <b>Author(s)</b>
135	Planning and methodology adopted to deal with adverse geological problems encountered during HRTs excavation of Teesta VI Hydroelectric Project (500MW), Sikkim, India, <b>Dash, Anil Kumar; Lakra, Manoj Kumar; Bariha, Sailendra Singh; Singh, Mohinder Pal; Patel, Anoop Kumar</b>
136	Engineering protection of recreational facilities, <b>Matsiy, Sergey Iosifovich; Sidaravičute, Uliana Rolandovna; Matsiy, Vladimir Sergeevich</b>
221	Case Study on Using Optical Sensors to Investigate Groundwater Flow Speed and Direction, <b>Kuo, Chihping; Yang, Chenyu</b>
235	Specifics of landslide rehabilitation along the road infrastructure in Hrvatsko Zagorje, <b>Librić, Lovorka; Vulić, Kristina; Matić, Stjepan; Bačić, Mario</b>
246	Geohydrological monitoring of slope using advanced distributed fibre-optic sensing: from laboratory study to field applications <b>Acharya, Ashis; Tanimura, Daiki; Zhang, Chao; Ito, Fumihiko; Sakaki, Toshihiro; Komatsu, Mitsuru; Doi, Issei; Kogure, Tetsuya</b>

**POSTER SESSION** (Mare, Section 2)13:30  
17:00**Geo-Aspects of Earthquake Engineering**

ID	Paper Title / <b>Author(s)</b>
110	Regulating Liquefaction Risk for Residential Land Development, <b>Roh, Catherine</b>
126	Detailed study of a lateral spreading along the Kupa's river (Croatia) following the 2020-Petrinja earthquake (Mw= 6.4), <b>Laura Nguyen, Denis Moiriat, Céline Gelis, Jochen Hürtgen, Miguel Benz-Navarette, Bruno Mravlja, Tuan Anh Luong, Philippe Reiffsteck, Kim Josephine Louis, Stephane Baize, Nikola Belic, Josipa Maslac, Lara Wacha, Branko Kordic, Snjezana Markusic</b>
134	Macroseismic data to characterize localized topographical damage patterns in Northern Croatia after 2020 Zagreb and Petrinja earthquakes <b>Stanko, Davor; Sović, Ivica; Markušić, Snježana</b>
136	Assessment of Soil Behavior in Seismic Excitations by Exploring Different Approaches, <b>Edip, Kemal; Stanko, Davor; Bojadjieva, Julijana; Salic-Makreska, Radmila; Sheshov, Vlatko</b>
253	National Scale Earthquake Susceptibility Mapping Utilizing Explainable Artificial Intelligence in the Nepal Himalayas <b>Shrestha, Suchita; Pradhan, Ananta Man Singh; Kang, Tae-Seob</b>
261	A geological and geophysical interpretation of gravel liquefaction site effects following the Mw 6.4 Petrinja (Croatia) Earthquake, <b>Nikola Belić, Giuseppe Di Giulio, Maurizio Vassallo, Sara Amoroso, Kyle Rollins, Gabriele Tarabusi, Luca Minarelli, Marko Špelić, Radovan Filjak, Lara Wacha, Kosta Urumović, Tomislav Kurečić</b>

TIME

**Day 03 / Thursday, October 10<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Engineering Geology for the Society**

ID	Paper Title / <b>Author(s)</b>
100	Geological Engineering for Societal & Sustainable Development - Bangladesh A Case Study, <b>Hossain, Atm Shakhawat</b>
133	Assessment of Rock-mass Groutability in High-stress Metamorphics; Seepage Control and Resilience Intervention - the Upper Tamakoshi Headrace Tunnel Case Study, Nepal, <b>Christakis, Eirinaios; Sapkota, Sanjib</b>
149	Temperature dependence of the residual shear strength: the role of clay fraction <b>Dhakal, Om Prasad; Loche, Marco; Dahal, Ranjan Kumar; Scaringi, Gianvito</b>
175	Laboratory rainfall test on piston flow phenomena involving pore air pressure in landslide mass, <b>Furuya, Gen; Habashita, Daichi; Wang, Gonghui</b>
182	Surface deformation of the landslide of Hattaro Pass caused by the 2024 Noto Peninsula Earthquake, <b>Kikuchi, Teruyuki; Chida, Keiji; Tajika, Jun; Kanayama, Kentaro; Otsu, Kosuke; Hatano, Teruyoshi; Ando, Shin; Hasegawa, Nobusuke; Inagaki, Hideki; Osada, Masahiko</b>
208	Development of the New Zealand Landslides Database and recommendations for creation of international standards for landslide data transfer <b>Roberts, Ross Christopher</b>
240	Seismic Zone "Kresna" in South-Western Bulgaria and the Infrastructure Projects in the Area <b>Anguelov, Kiril; Denev, Dobrin; Anguelov, Kiril</b>
251	Failure mechanisms of soft rock cliffs due to sea wave motion: a numerical insight <b>Lollino, Piernicola; Andriani, Gioacchino Francesco</b>
277	Lollino, Piernicola; Andriani, Gioacchino Francesco <b>Pollak, Davor; Hećej, Nina; Bostjančić, Iris; Gulam, Vlatko</b>
322	A Case Study on Reactive Managed Retreat from Landslide Risk - Lessons Learned in Auckland, New Zealand <b>Roberts, Ross Christopher; Lee, Kuanjin; McLelland, Rebekah; Chakravorty, Nikki</b>
332	Integration of local relief into small-scale landslide susceptibility mapping <b>Bostjančić, Iris; Gulam, Vlatko; Pollak, Davor</b>
333	Engineering Geology: A Cornerstone of Infrastructural and Economic Advancement in Algeria <b>Boulabeiz, Mahrez; Dassamiour, Mohamed; Aoudane, Laiche; Agaugenia, Siham</b>

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TIME

**Day 03 / Thursday, October 10<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Engineering Geology and Cultural Heritage Protection**

ID	Paper Title / <b>Author(s)</b>
147	Geotechnical investigation for reconstruction of Županijski complex Požega <b>Baranašić, Ivan; Alivojvodić, Ivan; Posarić, Dino</b>
152	Towards a rapid and practical determination of the pin-rock interaction parameters of the CERCHAR abrasivity test <b>Kaspar, Markus; Frühwirt, Thomas; Latal, Christine; Blümel, Manfred</b>
212	Are Our Monuments Melting Away? Exploring the Impact of Climate Change on Stone's Surface Finishes of Belgian Heritage Buildings <b>Fanfone, Morgane; Debailleux, Laurent; Descamps, Fanny</b>
271	Climate change adaptation and cultural heritage: The case study of the archaeological site of Ancient Messene, Greece, <b>Pougkakioti, Vasiliki; Kitsara, Gianna; Maistrou, Eleni; Lazoglou, Miltiades; Giannakopoulos, Christos</b>
318	Qualitative Assessment of the rockfall risk; case study Archaeological Site of Delphi, in Greece, <b>Devlioti, Kyriaki; Papathanassiou, George; Christaras, Basile; Vouvalidis, Konstantinos</b>
328	Stability of the historical monuments: the phantom menace? <b>Hartvich, Filip; Marikova - Kubkova, Jana</b>



TIME	Day 04 / Friday, October 11 <sup>th</sup>			
09:30 10:00	<b>Keynote Lecture - Vassilis Marinos</b> - Empowering the next generation. Reshaping the education for the engineering geologists of the future (Mare, Section 1)			
10:00 10:30	<b>Keynote Lecture - Dominique Ngan-Tillard</b> - Engineering Geology: keeping the past in mind to understand the present for a better future (Mare, Section 1)			
10:30 11:00	<b>Coffee Break</b> (Conference center lobby)			
11:00  12:30	<b>Geological and Geotechnical Challenges in Urban Development and Construction</b> (Mare, Section 1)	<b>In the Path of Progress: AI Innovations in Landslide and Eng. Geological Research</b> (Mare, Section 3)	<b>2024 Richard Wolters Prize Contest</b> (Mare, Section 4)	<b>Workshop - Ws4: Rockmass Characterization with Emphasis in Rock Slope Hazards</b> (Luna Conference Room)
12:30 13:30	<b>Lunch Break</b> (Main hotel restaurant)			
13:30  15:00	<b>Site Investigation and Characterization for Sustainable Infrastructure Development</b> (Mare, Section 1)	<b>Women in Geology</b> (Mare, Section 3)	<b>2024 Richard Wolters Prize Contest</b> (Mare, Section 4)	<b>Workshop - Ws4: Rockmass Characterization with Emphasis in Rock Slope Hazards</b> (Luna Conference Room)
15:00 15:30	<b>Coffee Break</b> (Conference center lobby)			
15:30  17:00	<b>Geohazard Assessment and Risk Mitigation for Infrastructure Projects</b> (Mare, Section 1)	<b>Environmental Geology and Geotechnical Eng. for Natural Resource Management</b> (Mare, Section 3)	<b>Advances in Geological Modelling for Engineering Applications</b> (Mare, Section 4)	<b>Workshop - Ws5: Structure and Behavior of Rock and Soil - C29</b> (Luna Conference Room)
13:30  17:00	<b>POSTER SESSION</b> (Mare, Section 2) <b>Geohazard Assessment and Risk Mitigation for Infrastructure Projects</b> <b>Geological and Geotechnical Challenges in Urban Development and Construction</b> <b>Advances in Geological Modelling for Engineering Applications</b> <b>Environmental Geology and Geotechnical Eng. for Natural Resource Management</b>			
17:00 17:30	<b>Coffee Break</b> (Conference center lobby)			
17:30  19:00	<b>Round Table: Review and dissemination of IAEG Commissions outcomes</b> (Mare, Section 1)			<b>Workshop - Ws5: Structure and Behavior of Rock and Soil - C29</b> (Luna Conference Room)
19:00 19:30	<b>Richard Wolters Prize 2024 Lecture</b> (Mare, Section 1)			
19:30 20:00	<b>Closing Ceremony</b> (Mare, Section 1)			
20:00 23:00	<b>IAEG party hosted by YEG</b> (Hotel Dubrovnik Palace Night Club)			

TIME	<b>Day 04 / Friday, October 11<sup>th</sup></b>	
11:00 12:30	<b>Geological and Geotechnical Challenges in Urban Development and Construction</b> (Mare, Section 1), Moderators: Martin Brook and Constantinos Loupasakis	
	ID	Paper Title / <b>Author(s)</b>
11:00 11:15	107	COASTAL AREAS UNDER THE THREAT OF LAND SUBSIDENCE AND FLOODING - THE CASES OF MESSOLONGHI AND AITOLIKON, GREECE, <b>Nikolaos Antoniadis, Stavroula Alatzas, Constantinos Loupasakis, Charalampos Kontoes</b>
11:15 11:30	112	REMEDICATION OF THE LANDSLIDE AND RETAINING WALL SUČEVIĆ <b>Nikola Trbović, Boris Kereš</b>
11:30 11:45	157	EGOS & ON-SITE INNOVATIONS- INSIGHTS OF RANGIT-IV HE PROJECT, SIKKIM, INDIA, <b>Radhendra Narayan Sahoo, Pankaj Rawat, Saurabh Singh, Praveen Kumar Singh, Sandeep Prakash Lal</b>
11:45 12:00	213	SLOPE INSTABILITY AND ASSOCIATED GEOHAZARDS IN GISBORNE, NEW ZEALAND <b>Martin Brook, Matt Cook, Ariane Pola, Janki Patel, Ayrton Hamilton, Murry Cave</b>
12:00 12:15	236	OPTIMIZING URBAN MANAGEMENT, PLANNING, AND RESILIENCE THROUGH AN ENGINEERING GEOLOGICAL DATABASE: THESSALONIKI'S EXPERIENCE <b>Aliki Kokkala, Vassilis Marinos, George Papathanasiou, Antonis Mouratidis</b>
12:15 12:30	330	INIO - A GLOBAL INSAR SERVICE, PROVIDING GEOTECHNICAL ANALYSIS FROM SPACE, <b>Georgia Karadimou, Dyre Dammann, Regula Frauenfelder, Malte Vöge</b>

11:00 12:30	<b>In the Path of Progress: AI Innovations in Landslide and Eng. Geological Research</b> (Mare, Section 3), Moderators: Efstratios Karantanellis and Xuanmei Fan	
	ID	Paper Title / <b>Author(s)</b>
11:00 11:20	104	A STEP TOWARDS PHYSICS-INFORMED NEURAL NETWORKS FOR LANDSLIDE SPATIAL PREDICTION: THE HYBRID FUTURE OF GEOTECHNICAL AND DATA-DRIVEN MODELLING, <b>Luigi Lombardo</b>
11:20 11:30	158	LANDSLIDE SUSCEPTIBILITY MAP USING VIT ARCHITECTURES WITH PRE-SLIDE TOPOGRAPHIC DEM OF DEEP-SEATED LANDSLIDES <b>Teruyuki Kikuchi, Sho Fukaya</b>
11:30 11:40	166	ON THE DEEP-SEATED BEDROCK LANDSLIDE TRIGGERED BY THE 2018 HOKKAIDO EASTERN IBURI EARTHQUAKE: A CASE STUDY <b>Gonghui Wang, Shengshan Wu, Issei Doi, Gen Furuya, Naoki Watanabe</b>
11:40 11:50	167	POINT CLOUDS AND MACHINE LEARNING IN ROCK SLOPE MODELING <b>Ioannis Farmakis, D. Jean Hutchinson, Nicholas Vlachopoulos</b>
11:50 12:00	186	EFFECTIVE ROCKFALL RISK MITIGATION TECHNIQUES BASED ON DIACHRONIC CLOSE-RANGE REMOTE SENSING DATASETS. CASE STUDY: KALYMNOS ISL. WORLD-RENOWNED CLIMBING TERRAIN (GREECE), <b>Emmanuel Vassilakis, Aliki Konsolaki, Konstantinos Soukis, John Lialiaris, Spyridon Mavroulis, Evelina Kotsi, Efthymios Lekkas</b>
12:00 12:10	199	LANDSLIDE SUSCEPTIBILITY MODELS AT A REGIONAL SCALE. THE CASE STUDY OF THE REGION OF EPIRUS IN GREECE <b>Nikolaos Depountis, Zoe Misiri, Katerina Kavoura</b>
12:10 12:20	222	ADVANCING LANDSLIDE MAPPING: INTEGRATING MACHINE LEARNING AND OBJECT-BASED ANALYSIS WITH UAV-DERIVED DATA <b>Efstratios Karantanellis, Vasilis Marinos, Emmanuel Vassilakis</b>
12:20 12:30	249	ENVIRONMENTAL SEISMOLOGY WITH AI <b>Wei-An Chao</b>

TIME		<b>Day 04 / Friday, October 11<sup>th</sup></b>	
13:30 15:00		<b>Site Investigation and Characterization for Sustainable Infrastructure Development</b> (Mare, Section 1), Moderators: Martin Bednarik and Janusz Wasowski	
	ID	Paper Title / <b>Author(s)</b>	
13:30 13:45	146	SINKHOLE HAZARD ASSESSMENT ON DOLOMITE LAND: A CASE OF KHUTSONG NORTH, CARLETONVILLE - GAUTENG PROVINCE, SOUTH AFRICA <b>Sifiso Ngubelanga, Goodman Chiliza, Bongani Msane, Makgari Sebesho</b>	
13:45 14:00	184	EVALUATION OF THE STABILITY OF THE DIKE SYSTEM OF THE ŠPANIA DOLINA TAILINGS POND, SLOVAKIA <b>Martin Bednarik, René Putiška, Bibiana Brixová, Rudolf Tornyai, Róbert Csizmadia</b>	
14:00 14:15	242	SFM PHOTOGRAMMETRY FOR ROCKFALL MONITORING AND HAZARD ASSESSMENT ALONG THE AGIA VARVARA-AGRAFA ROAD IN CENTRAL GREECE <b>Themistoklis Chatzitheodosiou, Ioannis Farmakis, Dimitra Papouli, George Stoumpos, George Prountzopoulos, Vassilis Marinos</b>	
14:15 14:30	256	ADVANCEMENTS IN LANDSLIDE VOLUME ESTIMATION: INSIGHTS FROM THE 2016 MW7.8 KAIKOURA EARTHQUAKE <b>Stratis Karantanellis, Marin Kristen Clark, Dimitrios Zekkos, Michael Willis</b>	
14:30 14:45	303	REVIEW OF THE CONCEPT OF SMART LEVEES <b>Meho Sasa Kovacevic, Nicola Rossi, Mario Bacic, Goran Grget</b>	
14:45 15:00	324	REFINING HYDRAULIC CONDUCTIVITY ESTIMATION IN FRACTURED MEDIA USING X-RAY TOMOGRAPHY, DISCRETE FRACTURE NETWORKS AND FLEXIBLE WALL PERMEAMETER <b>Elisa Mammoliti, Davide Fronzi, Mirko Francioni, Stefano Mazzoli, Jonathan Domizi, Matteo Rapazzetti, Alessia Caputo, Alberto Tazioli, Giuseppe Scarpelli, Paolo Castellini</b>	

13:30 15:00		<b>Women in Geology</b> (Mare, Section 3), Moderators: Ann Louisa Williams and Dominique J.M. Ngan-Tillard	
	ID	Paper Title / <b>Author(s)</b>	
13:30 13:45	117	GEOLOGICAL-GEOTECHNICAL CHARACTERIZATION OF A RESERVOIR AREA <b>Isabel Fernandes, Maria dos Anjos Ribeiro, Jorge Neves, Mário Quinta-Ferreira</b>	
13:45 14:00	119	FEATURES OF THE ECOLOGICAL-GEOLOGICAL SYSTEM OF THE TUFF MASSIF OF THE PAUZHETSKY GEOTHERMAL REGION (KAMCHATKA) <b>Violetta Shanina</b>	
14:00 14:15	168	MULTI-TEMPORAL EVALUATION OF LANDSLIDES IN A DAM RESERVOIR AREA WITH THE INTEGRATION OF MULTIPLE METHODS, <b>Tümay Kadakci Koca</b>	
14:15 14:30	188	UNVEILING COASTAL CLIFF VULNERABILITIES BY INTEGRATING LIDAR, UAS, AND AI TECHNOLOGIES. CASE STUDY: NAVAGIO SHIPWRECK BEACH, ZAKYNTHOS (GREECE), <b>Aliki Konsolaki, Emmanuel Vassilakis, Efstratios Karantanellis, Evelina Kotsi, Eythimios Lekkas</b>	
14:30 14:45	247	RESILIENCE <b>Ann Louisa Williams</b>	
14:45 15:00	266	CHARACTERIZING THE CPT RESPONSE AND PARTICLE SIZE DISTRIBUTION OF FLUVIALLY DEPOSITED PLEISTOCENE SANDS IN THE NETHERLANDS <b>Fenna van Aarle, Kevin Duffy, Kay Koster, Dominique J.M. Ngan-Tillard, Ronald Harting, Freek S. Busschers</b>	

TIME	<b>Day 04 / Friday, October 11<sup>th</sup></b>	
15:30 17:00	<b>Geohazard Assessment and Risk Mitigation for Infrastructure Projects</b> (Mare, Section 1), Moderators: Christian Zangerl and Tümay Kadakci Koca	
	ID	Paper Title / <b>Author(s)</b>
15:30 15:45	192	STABILITY ASSESSMENT FOR A 5000M LONG CLIFF IN CARBONATE ROCKS - A CASE STUDY <b>Mohammed Musthafa Khaleel, Mohammed Jalaluddin Ahmed, Kurian Jacob</b>
15:45 16:00	194	GEOTECHNICAL APPROACH TO ENHANCE THE APPLICATION OF THE COASTAL VULNERABILITY INDEX (CVI) IN LOCAL SCALE AREAS IN GREECE <b>Vasileios Boumpoulis, Nikolaos Depountis</b>
16:00 16:15	204	BACK ANALYSIS OF CUT SLOPES ALONG THE FAST TRACK PROJECT OF NEPAL <b>Ujjwal Krishna Raghubanshi, Ranjan Kumar Dahal</b>
16:15 16:30	231	IMPACT OF DEEP-SEATED ROCK SLIDES ON INFRASTRUCTURE <b>Christian Zangerl</b>
16:30 16:45	289	ASSESSING ROCKFALL HAZARDS POST-WILDFIRES: A CASE STUDY IN EVROS, GREECE, <b>Pavlos Asteriou, Dimitris Sotiriadis, Eleni Petala, Labros Kazelis, Evangelos Evaggelou, Theofilos Tzevelekis, Nikos Klimis</b>
16:45 17:00	335	AN EVIDENCE BASED APPROACH TO QUANTIFYING GEOLOGICAL UNCERTAINTY, <b>Luke Johnstone</b>

15:30 17:00	<b>Environmental Geology and Geotechnical Eng. for Natural Resource Management</b> (Mare, Section 3), Moderators: Isabel Fernandes and Gianvito Scaringi	
	ID	Paper Title / <b>Author(s)</b>
15:30 15:45	108	PETROGRAPHIC, PHYSICAL AND MECHANICAL CHARACTERIZATION OF ROCKS FROM ANGOLA AS DIMENSION STONES <b>Widnélia Lopes, Isabel Fernandes, Matilde Costa e Silva, Amélia Dionísio</b>
15:45 16:00	115	A METHOD OF DETERMINING UNSTEADY AIR PERMEABILITY OF ROCK <b>Yota Togashi, Masahiko Osada</b>
16:00 16:15	148	APPLICATION OF GEOPHYSICAL INVESTIGATIONS FOR DETECTING THE GROUNDWATER SPRINGING IN THE SIRAČ LIMESTONE QUARRY, MINING FIELD ČELINA <b>Jasmin Jug, Kristijan Grabar, Stjepan Strelec, Dragana Dogančić</b>
16:15 16:30	169	FLUID FLOW CAPABILITY OF INCIPIENT FOLIATION, NATURAL FRACTURE ALONG FOLIATION, AND TENSILE FRACTURES OF SLATE <b>Xuan-Xinh Nguyen, Che-Wei Yeh, Tan-Minh Le, Jia-Jyun Dong</b>
16:30 16:45	281	DAMAGE EVOLUTION OF ROCK-ENCASED-BACKFILL STRUCTURE UNDER STEPWISE CYCLIC TRIAXIAL LOADING <b>Xin Yu, Shengwen Qi, John Kemeny, Yuye Tan, Weidong Song, Songfeng Guo, Bowen Zheng</b>
16:45 17:00	337	DISTRICT-SCALE SEASONAL UNDERGROUND THERMAL ENERGY STORAGE: CHALLENGES AND OPPORTUNITIES IN THE CZECH REPUBLIC <b>Gianvito Scaringi, Jan Jerman, Tomáš Kadlíček, David Mašín, Jan Najser, Jakub Roháč</b>



TIME	<b>Day 04 / Friday, October 11<sup>th</sup></b>	
15:30 17:00	<b>Advances in Geological Modelling for Engineering Applications</b> (Mare, Section 4), Moderators: Kurosch Thuro and Leo Matešić	
	ID	Paper Title / <b>Author(s)</b>
15:30 15:45	144	COMBINED IMPACT OF INHERENT AND STRESS-INDUCED ANISOTROPY ON ROCK PERMEABILITY AND SLOPE STABILITY: ODA'S EQUATION SOLUTION AND FLAC3D SIMULATION ANALYSIS <b>Chia-Huei Tu, Jia-Jyun Dong, Alvian Rizky Yanuardian, Jia-Yi Wu</b>
15:45 16:00	153	EXPERIMENTAL AND NUMERICAL MODELING OF SOIL-VEGETATION-ATMOSPHERIC INTERACTION ON SLOPES AND EROSION CONTROL USING BIOPOLYMERS AND VEGETATION <b>Josif Josifovski, Bojan Susinov, Aleksandra N. Atanasovska</b>
16:00 16:15	174	ANALYSIS OF THE SOIL PROPERTIES SPATIAL HETEROGENEITY BY MEANS OF ENGINEERING GEOLOGICAL MODELLING <b>Gulmira S. Amanova, Eugene A. Voznesensky</b>
16:15 16:30	177	3D NUMERICAL SIMULATION OF GEOMECHANICAL AND FRACTURE PROCESSES IN THE VICINITY OF DEEP GEOTHERMAL DRILLINGS IN SE BAVARIA, GERMANY <b>Justin Mattheis, Catharina Drexl, Patricia Ambos, Kurosch Thuro</b>
16:30 16:45	180	UNDERGROUND EXCAVATION OF POWER HOUSE CAVERN & SURGE SHAFT IN ADVERSE GEOLOGICAL CONDITIONS <b>Shrish dubey, Prashant Jaiswal, Pradeep Kumar Garnayak, Deepak Verma</b>
16:45 17:00	316	3D RANDOM FIELD MODELLING OF STRATIGRAPHY AND GEOTECHNICAL PARAMETERS IN THE TAIPEI BASIN: IMPLICATIONS FOR MAPPING VS30 <b>Stefan Nicholas, Jia-Jyun Dong, Yu-Chen Lu</b>



TIME

**Day 04 / Friday, October 11<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Geohazard Assessment and Risk Mitigation for Infrastructure Projects**

ID	Paper Title / <b>Author(s)</b>
113	Predicting Shallow Rainfall-Induced Landslides in eThekweni Metropoli, South Africa: Utilising the TRIGRS Model <b>Chiliza, Sibonakaliso Goodman; Demlie, Molla; Hingston, Egerton</b>
122	Geohazards traps encountered on the route of the highway Pitesti-Sibiu, Romania <b>Stanciucu, Mihaela; Diaconu, Adrian; Dogaru, Iuliana; Mihai, Ramona</b>
128	Emergency management (mitigation, preparedness, and rapid response) of landslide dam hazards - A Review, <b>Dong, Jia-Jyun; Pan, Yii-Wen; Liao, Jyh-Jong</b>
130	Evaluation of failure types and evolution of a deep-seated landslide, Taichung City, Taiwan, <b>Yang, Che-Ming; Hsieh, Chia-Lung</b>
172	Rotenfels: analysis of the rockfall hazard on the highest rock face north of the Alps <b>Gruslin, Steve; Hennebaut, Tiffany; Endrès, Anaïs</b>
176	Large-scale landslide susceptibility zonation: classification methods and influence on a further application in spatial planning system, <b>Bernat Gazibara, Sanja; Šefičar, Iva; Sinčić, Marko; Krkač, Martin; Mihalić Arbanas, Snježana</b>
181	Remediation of the Emergency Landslide in Svätý Anton, Slovakia <b>Bednarik, Martin; Csizmadia, Róbert; Putiška, René; Brixová, Bibiana; Tornyai, Rudolf; Havlín, Aleš</b>
241	Restoration of damage to a road in Greece after Daniel phenomenon, <b>Tavoularis, Nikolaos; Konstantara, Aggeliki; Ziavra, Aggeliki; Sotiropoulos, Leonidas</b>
244	Comparison of predicted or designed with actual or executed conditions using the example of recently constructed tunnels "Podmurvice" and "Debeli Brijeg" in the Republic of Croatia, <b>Vukičević, Filip; Šegedin, Nikola; Julardžija, Suad; Matešić, Leo</b>
254	Cyclone Daniel's Scars: A Landslide Analysis in Meteora, Greece <b>Spanou, Natalia; Kavoura, Katerina; Nikolaou, Nikolaos</b>
260	Ventilation-based removal of toxic gases from geothermal sources in infrastructure projects using Computational Fluid Dynamics (CFD) <b>Aksoy, Cemalettin Okay; Aksoy, Guzin Gulsev Uyar; Sarisan, Berker</b>
288	Deformation forecasting and stability analysis of soft rock tunnel form Microseismic source probabilistic localization <b>Sun, Yuepeng; Xu, Nuwen; Li, Biao; Xiao, Peiwei; Sun, Zhiqiang</b>
293	Streamlining Rockfall Analysis: A Digital Paradigm for Efficiency, Collaboration and Risk Management, <b>Gkouvailas, Alkis; Aksular, Irem; Chan, See Wai Rachael; Fu, Karen; Leibrick, Finlay</b>
299	Geomorphic effectiveness of flood discharge and its importance for river-bed engineering constructions: a case of the Godavari, India <b>Das, Sumit; Scaringi, Gianvito</b>
319	Mining-Induced Subsidence Susceptibility Modelling of the Witwatersrand Basin using Weights of Evidence (WOE) Approach in GIS <b>Chiliza, Sibonakaliso Goodman; Mankayi, Nkosizanokusa Nqobile; Sebesho, Makgari Lerato; Gabavana, Cokisa; Denner, Gabrielle</b>
299	Fold-controlled rock sliding determined from structure and 2D InSAR presents a low hazard: the case of Dusnjárga, northern Norway, <b>Vick, Louise Mary; Grumstad, Andreas; Faber, Carly; Rouyet, Line; Bekkevoll, Simen</b>

TIME

**Day 04 / Friday, October 11<sup>th</sup>****POSTER SESSION (Mare, Section 2)**13:30  
17:00**Geological and Geotechnical Challenges in Urban Development and Construction**

ID	Paper Title / <b>Author(s)</b>
109	Evaluating the effectiveness of landslide mitigation measures using MCDA methods and SNAP software, <b>Nefros, Constantinos; Loupasakis, Constantinos; Kitsara, Gianna; Giannakopoulos, Christos</b>
116	Comparative Study on Strength Characteristics of Carbonate Rocks from Al Ain, Abu Dhabi, United Arab Emirates (UAE), <b>Arman, Hasan; Alazzani, AbdulAziz Khalid Khalifa; Al Harthi, Mansoor Saleh Ayedh; Alharbi, Ahmed Qayed Mosaad; Al Mansour, Mulham Abdalla; Paramban, Safwan</b>
155	Soil-water retention and drainage during shear of an unsaturated granular material <b>Chiasson, Paul</b>
200	Experimental method for testing thixotropic properties of soils <b>Stołowski, Wiktor; Saczka, Aleksander; Sekuła, Klaudia</b>
216	On an atypical moraine of the Swiss Plateau and the presence of a continuous aquifer between Lausanne Aquitanian grey molasse and Quaternary deposits <b>Chapuis, Flavien; Zapata Franco, Daniela</b>
290	Formation of talus deposits in soft rock mass and its impact to infrastructure: some examples of low cost mitigation measures <b>Vlastelica, Goran; Jelušič, Primož; Miščević, Predrag; Žlender, Bojan</b>

**POSTER SESSION (Mare, Section 2)**13:30  
17:00**Advances in Geological Modelling for Engineering Applications**

ID	Paper Title / <b>Author(s)</b>
178	Application of machine learning for modelling subsurface spatial model using geophysical and borehole data - a case study of Gusić Polje 2 Compensation Basin for Senj 2 Hydroelectric Power Plant, <b>Lozić, Matija; Mirčeta, Antonia</b>
211	Machine Learning Landslide Susceptibility Mapping in Western Greece With In-situ Time-Series Analysis, <b>Alatza, Stavroula; Loupasakis, Constantinos; Apostolakis, Alexis; Kontoes, Charalampos; Kokkalidou, Martha; Bartsotas, Nikolaos S.; Nefros, Constantinos</b>
262	Slope Stability Analysis Using the 3D Limit Equilibrium Method in a Fault-Controlled Metal Mine <b>Aksoy, Güzin Gülsev Uyar; Aksoy, Cemalettin Okay; Savas, Ozan</b>
280	Landslide Mapping and Model Development from multi-level remote sensing technologies data, Hrvatska Kostajnica case study, Croatia <b>Laszlo Podolszki, Ivan Kosović, Tomislav Novosel, Tomislav Kurečić</b>
329	From Data to Depths: a Journey into 3D Geological Modelling <b>Baudouy, Lucie; Fioravanti, Anna; Duvail, Cédric</b>

TIME

**Day 04 / Friday, October 11<sup>th</sup>****POSTER SESSION** (Mare, Section 2)13:30  
17:00**Environmental Geology and Geotechnical Eng. for Natural Resource Management**

ID	Paper Title / <b>Author(s)</b>
143	Investigation of the absorbing properties of modified sandy soil to create a geochemical barrier for storage landfills municipal solid waste <b>Kovalevskaya, Alexandra; Malikova, Tatyana; Irina, Rodkina</b>
164	Experimental study on turbidity currents transporting microplastics in different canyon topographies, <b>Lu, Yang; Liu, Xiaolei</b>
193	Multi-hazard assessment of soil erosion and landslide susceptibility in the drainage basin of the Pinios dam in Greece <b>Michalopoulou, Maria; Lainas, Spyros; Depountis, Nikolaos</b>
282	Characteristics and Interlayer Slip Structure Control of Coal and Gas Outburst in Baijiao Coal Mine <b>Sun, Wen Qing; Zhao, Qi Hua; Peng, She Qin; Zhang, Tian Hai; Liu, Chun Fu</b>
302	Hydrogeochemical Modeling of CaCO <sub>3</sub> Scaling from the Serpentinization-Driven Hyperalkaline Springs <b>Šaraba, Vladimir; Trtić-Petrović, Tatjana; Petrović Pantić, Tanja</b>

Svaki put uz vas

**INA**

VEĆ 60 GODINA

**TIME** **Day 05 / Saturday, October 12<sup>th</sup>**

**08:45** **FIELD TRIP 1: Trebišnjica Hydrosystem, TREBINJE, BiH**

1. Starting point (Dubrovnik)
2. Dam Grančarevo
3. Outlet of the tunnel Fatnica Polje-Reservoir "Bileća"
4. Trebišnjica Springs and reservoir "Bileća"
5. Fatničko polje tunnel entrance
6. Dabarsko polje - Fatničko polje geotechnical problems
7. Inlet of the tunnel reservoir Nevesinje - HPP Dabar
8. Nevesinjsko polje
9. Lunch Kifino selo
10. Dam and reservoir Klinje

**19:00**

**08:45** **FIELD TRIP 2: Neretva River valley**

1. Starting point, Dubrovnik, in front of the hotel,
2. In the Bus - engineering geological project of a motorway from Dubrovnik to Pelješac bridge,
3. Ston, a medieval town, known for its fortification wall, coffee break, and general presentation on the Dinaric karst,
4. A viewpoint - the Pelješac bridge, engineering geological aspects,
5. Karst spring Prud - hydrogeological and water quality aspects, water supply, transboundary catchment area,
6. Lunch break,
7. Neretva River delta and alluvial plane, the project of a dam to prevent river and groundwater salinization, engineering geological and hydrogeological problems,
8. Return to Dubrovnik

**19:00**



**Projektiranje**  
**Nadzor**  
**Istraživanje**  
**Razvoj u Graditeljstvu**



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**phone:** +385 1 5557 701  
**mail:** info@zagreb-montaza.hr  
**web:** www.zagreb-montaza.hr





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