

Plenary lecture

Assoc. Prof. Leo Matešić
President of Croatian Geotechnical Society
Geokon Zagreb
University of Rijeka
Faculty of Civil Engineering

Invited lecture

Prof. Dr. Dietmar Adam
TU Wien

Dr. Željko Arbanas, Proffesor emeritus
University of Rijeka
Faculty of Civil Engineering

Prof. Dr. Sabatino Cuomo
University of Salerno

Assist. Prof. Dr. Gianvito Scaringi
Charles University, Prague
Faculty of Science

Assoc. Prof. Dr. Luca Piciullo
Norwegian Geotechnical Institute
Oslo Metropolitan University

Assist. Prof. Dr. Jordan Aaron
ETH Zurich

Organizing committee

Assoc. Prof. Martina Vivoda Prodan
29th EYGEC Symposium Chair
University of Rijeka
Faculty of Civil Engineering

Assoc. Prof. Leo Matešić
President of Croatian Geotechnical Society
Geokon Zagreb
University of Rijeka
Faculty of Civil Engineering

Assoc. Prof. Sanja Duğunjić Jovančević
University of Rijeka
Faculty of Civil Engineering

Assoc. Prof. Vedran Jagodnik
University of Rijeka
Faculty of Civil Engineering

Assoc. Prof. Josip Peranić
University of Rijeka
Faculty of Civil Engineering

Assist. Prof. Petra Jagodnik
University of Rijeka
Faculty of Civil Engineering

Assist. Davor Marušić
University of Rijeka
Faculty of Civil Engineering

Prof. Krunoslav Minažek
Secretary of Croatian Geotechnical Society
Jura J Strossmayer University of Osijek
Faculty of Civil Engineering and Architecture Osijek

Assoc. Prof. Goran Vlastelica
University of Split
Faculty of Civil Engineering
Architecture and Geodesy

Assoc. Prof. Lovorka Librić
University of Zagreb
Faculty of Civil Engineering

Sonja Zlatović, PhD
Croatian Geotechnical Society

Assist. Prof. Igor Sokolić
Treasurer of Croatian Geotechnical Society
Geotehnički studio
Jura J Strossmayer University of Osijek
Faculty of Civil Engineering and Architecture Osijek



29th
European Young
Geotechnical Engineers
Conference
EYGEC 2025

PLATINUM SPONSOR



PRVI KORAK STABILNOSTI

GOLD SPONSORS



BRONZE SPONSORS



International Society
for Soil Mechanics and
Geotechnical Engineering



HRVATSKO GEOTEHNIČKO DRUŠTVO
CROATIAN GEOTECHNICAL SOCIETY
SOCIÉTÉ CROATE DE LA GÉOTECHNIQUE



University
of Rijeka
Faculty of
Civil Engineering

PROGRAMME
9-12 September 2025

TUESDAY, 9 SEPTEMBER		
17:00 - 18:00	Participant registration	@ Aula of GradRi
from 18:00	Welcome cocktail	@ Aula of GradRi

WEDNESDAY, 10 SEPTEMBER		
08:00 - 09:00	Participant registration	@ Aula of GradRi
09:00 - 09:45	Conference opening ceremony	@ G-003
09:45 - 10:15	Coffee break	@ Aula of GradRi
10:15 - 11:00	PLENARY LECTURE	
	Leo MATEŠIĆ Two cases of remediation of ground under bridges after natural disasters	@ G-003
11:00 - 11:45	INVITED LECTURE	
	Dietmar ADAM Soil Dynamics - Research and Application Technology - Human Factors - AI	@ G-003
11:45 - 12:45	CONFERENCE PRESENTATIONS: Behaviour of soil under dynamic loading	CONFERENCE PRESENTATIONS: Modeling in geotechnics
	João Pedro OLIVEIRA , Luis ARAÚJO SANTOS, Paulo COELHO The influence of the type of cyclic shearing on the behaviour	@ G-003 Erik TENGBLAD , Laura ASENSIO, Vicente NAVARRO Hydrogen flow model in porous media for underground hydrogen storage (UHS)
	Toni KITANOVSKI , Vlatko SHESHOV, Julijana BOJADZIEVA, Kemal EDIP, Dejan IVANOVSKI Shear wave velocity development in natural sand under triaxial loading	@ G-003 Mehdi JONEIDI , Gertraud MEDICUS, Roshanak SHAFIEIGANJEH, Iman BATHAEIAN, Barbara SCHNEIDER-MUNTAU Validation of 3D seismic analysis for a soil-pile-superstructure system using advanced soil constitutive models
	Naum SHPATA , Piotr KANTY, Wojciech T. SOLOWSKI Generalized interpolation material point method replication of vibrations caused by dynamic compaction	@ G-003 Anibal MONCADA , Ivan P. DAMIANS, Sebastià OLIVELLA, Richard J. BATHURST Relevant aspects to sustainability assessments of geotechnical structures
	Florian THURNER , Roman MARTE Proof of concept of a resource-saving soil improvement technique for liquefaction mitigation	@ G-003 Gema URRACA , Ángel YUSTRES, Vicente NAVARRO, Laura ASENSIO Assessment of high-temperature coupled effects in modelling compacted bentonites for nuclear waste disposal
12:45 - 14:00	Lunch break	@ Kampus restaurant
14:00 - 14:45	INVITED LECTURE	
	Sabatino CUOMO Flow-like Landslides: Numerical Modeling of Initiation, Propagation, and Interaction with Structures	@ G-004

14:45 - 16:00	CONFERENCE PRESENTATIONS: Slope stability	CONFERENCE PRESENTATIONS: Modeling in geotechnics
	Anton IVANOV , Gennadii BOLDYREV Use of the deterministic and probabilistic methods in slope stability calculations	@ G-003 Dora BELOŠEVIĆ 2D and 3D FEM analysis in geotechnics: when does the third dimension matter?
	Nikola TRBOVIĆ , Matea MARKOTA Slope protection on the island of Vis	@ G-003 George FRENCH , Stephen THOMAS Utilising unsaturated soil mechanics for the design of temporary excavation slopes
	Avtandil MAMULASHVILI Geotechnical assessment and stabilization of a rocky slope for residential construction in Tbilisi, Georgia	@ G-003 Jakub RAINER , Mikolaj MASLOWSKI, Maciej SOBÓTKA, Marek KAWA, Adrian RÓZANSKI Modeling of vertical drainage system in large scale geotechnical structures
	Andrea SVENSSON , David SCHÄLIN The impact of large excavations on shear strength in clay and slope stability	@ G-003
16:00 - 16:15	Joana-Sophia LEVKOV , Laurent PITTELOUD, Jörg MEIER Efficient stability assessment of embankments along a major railway corridor	@ G-003
	Coffee break	@ Aula of GradRi
16:15 - 17:00	INVITED LECTURE	
	Jordan AARON New insights into the failure and runout of soil and rock landslides	@ G-003
17:00 - 17:20	SPONSORED LECTURE	@ G-003
17:20 - 17: 35	Geotechnical laboratory tour	@ G-066
18:00 - 21:00	Guided walk in Rijeka	@ from Trsat castle to Rijeka city center

THURSDAY, 11 SEPTEMBER		
09:00 - 15:00	Technical visit and lunch	@ from GradRi to Rječina Valley and Orehovica highway / Konoba Borik
19:00 - 21:00	Geo quiz	@ Akvarij, Campus Trsat

FRIDAY, 12 SEPTEMBER		
09:00 - 09:45	INVITED LECTURE	
	Luca PICIULLO Integrating real-time monitoring and hydro-geotechnical modelling for real-time slope stability forecast and warning	@ G-004
09:45 - 11:00	CONFERENCE PRESENTATIONS: Soil stabilization and improvement	CONFERENCE PRESENTATIONS: Ground investigation and field monitoring
	Nourhen FRADJ , István KÁDÁR Sustainable soil stabilization using guar gum biopolymer	@ G-003 Fabian CAMPOS MONTERO , Eleni SMYRNIΟΥ, Bruno ZUADA COELHO, Riccardo TAORMINA, Philip J VARDON GEOSYN: synthetic geotechnical cross-sections for machine learning applications
	Rutger PINKE Lime treatment: effects on erosion resistance and aging of clay for dikes	@ G-003 Guilherme DE OLIVEIRA SOUZA , Philippe REIFFSTECK, Fabien SZYMKIEWICZ, Catherine JACQUARD, Michel RISPAL, Arnaud FINIASZ Correlation between MWD data and lithology in the Parisian basin
	Alessandro FRACCICA , Enrique ROMERO Exploring stress-paths and vegetation reinforcement mechanisms in a compacted soil	@ G-003 Yusuf BATUGE , Tahir YILDIZ, Murat CENGİZ Development of relationship between SPT and DCPT based on the relative density of soils (a case study from the Kingdom of Saudi Arabia)
	Anthony BRADSHAW Influence of depth and land cover on the biostimulation process of naturally occurring MICP communities	@ G-003 Asad WADOOD , Bryan A. McCABE, Brian B. SHEIL Fibre bragg grating strain data from a concrete jacking pipe
11:00 - 11:30	Julien MANNAH , Laurent BRIANCON, Caroline CHALAK, Thomas LENOIR, Hassan FARHAT Experimental study of the behaviour of the treated load transfer platform on rigid inclusions	@ G-003
	Coffee break	@ Aula of GradRi
11:30 - 12:15	INVITED LECTURE	
	Željko ARBANAS Application of observational methods during excavation in rock mass	@ G-003
12:15 - 13:30	CONFERENCE PRESENTATIONS: Deep excavation and underground structures	CONFERENCE PRESENTATIONS: Ground investigation and field monitoring
	Elena-Mihaela STAN A parametric study of the buttress walls behaviour in limiting the diaphragm wall displacements	@ G-003 Signe ELLEGAARD Aligning economic and sustainability goals: trade-offs from a geotechnical perspective
	Artur MALAMAN , Viktor NOSENKO, Liudmyla BONDAREVA Assessment of the stress-strain state of retaining walls of deep pit in conditions of dense urban construction	@ G-003 Jasmina TOROMANOVIC , Peter VIKLANDER, Jan LAUE Observations from cycles of varying reservoir levels on an experimental embankment dam
	Iñigo GARMENDIA ODRIOZOLA , Joseph M. SLATTERY Deep basement excavation - Park street, Cambridge, UK	@ G-003 Mindaugas ZAKARKA , Šarunas SKUODIS Determining stabilization time of vibrating wire piezometers in low-permeability moraine soils
	Aleksandar KOSTADINOVIĆ , Julian SIGMUND, Dietmar ADAM Finite element modelling of a deep excavation in the overconsolidated miocene soil of Vienna	@ G-003 Christoph JANUSKOVECZ Case study about stabilizing works in high sensible quick clay area in Moss, Norway
13:30 - 14:45	Theresa MAIER Application of reinforced ribs of sprayed concrete (RRS) in the new Austrian tunneling method (NATM)	@ G-003
	Lunch break	@ Kampus restaurant
14:45 - 15:30	INVITED LECTURE	
	Gianvito SCARINGI Effects of temperature and rate of shearing on the residual shear strength of clay soils	@ G-003
15:30 - 17:15	CONFERENCE PRESENTATIONS: Laboratory testing and experimental results	CONFERENCE PRESENTATIONS: Design and testing of piles
	Cristian-Stefan BARBU Analysis of the thermal resistivity of compacted silty soils for designing underground cable systems	@ G-003 Raffaele CESARO , Raffaele DI LAORA, Alessandro MANDOLINI Towards a performance-based design of piled foundations: a novel analytical framework for predicting pile response in sand
	Waqas AKHTAR , Gemmina DIEMIDIO Soil water retention curves and their implications for geotechnical engineering and corrosion of buried infrastructure	@ G-003 Danil ZHDANOV , Igor BOKOV Experience in design of a high-rise building with a pile foundation consisting of piles of different lengths
	Krzysztof KAMINSKI Use of digital image correlation for the tests of fragmented materials	@ G-003 André SOUSA Foundation design and structural integration for a new hospital in Faro, Portugal
	Zeina JOUDIEH , Olivier CUISINIER, Adel ABDALLAH, arimah MASROURI Artificial ground freezing: role of overburden pressure in the thermo-hydro-mechanical behavior of silty sand during a freeze-thaw cycle	@ G-003 Oleksii DYTIUK , Sergii TABACHNIKOV, Oleksandr BONDAR Methodology of soil model simulation for combined raft-pile foundation calculation
	T.R. van Straaten From laboratory to field: questioning isotach validity in peat compression	@ G-003 Lasse Kudsk RASMUSSEN Data-driven pile optimization utilizing computational design
	Abdelilah ERRAHALI , Emmanuel BOURGEOIS, Thibault BADINIER, Alain LE KOUBY, Aurore HORABIK Study of natural soil anisotropy using hollow cylinder tests	@ G-003 Inês BRAZ Special foundation solutions for the main stage of the World Youth Day 2023, in Lisbon
		Natacha DEPAUW Instrumented static load tests on foundation piles
17:15 - 17:45	Conference closing ceremony	@ G-003
from 19:30	Monterra gala dinner	@ Tarsa restaurant, Trsat