

VI INTERNATIONAL CONFERENCE ON **GIS and Geoinformation Zoning** **for Disaster Mitigation (GIZ)**

August 28-30, 2025, Rahat Palace Hotel, Almaty, Kazakhstan

PROGRAM BOOK



SIMSG ISSMGE



**Japanese
Geotechnical
Society**



**GEOTECHNICAL
CENTER**
SAINT PETERSBURG, RUSSIA



*ATC 10
ATC 19*



ALMATY
TOURISM
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KGS-ASTANA LLP



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WELCOME MESSAGE

Dear Colleagues and Friends,



The Asian Technical Committee (ATC10) of ISSMGE, in collaboration with TC305 and the Kazakhstan Geotechnical Society, is pleased to announce the 6th International Conference on GIS and Geoinformation Zoning for Disaster Mitigation (GIZ), to be held in Almaty, Kazakhstan.

This event, which has been successfully hosted five times since its establishment, provides a platform for professionals, researchers, engineers, and public officials to share cutting-edge research and technologies related to geoinformatics, hazard zoning, geotechnics, earthquake engineering, and disaster prevention.

In the wake of the challenges posed by the COVID-19 pandemic, we are excited to return to an in-person format and are pleased to expand the scope of ATC10 to include emerging technologies such as Building Information Modeling (BIM), Digital Twin, and Machine Learning. These advancements promise to enhance our research and practices in disaster mitigation.

This conference will also be co-organized by the Asian Regional Technical Committee 19 (ATC19) (Preservation of Historic Sites) of ISSMGE. Following the success of the previous symposium held at the Nara National Institute of Cultural Properties in Japan in 2023, this event aims to further promote the preservation of historic sites by fostering cooperation, supporting interdisciplinary studies, and addressing the impact of natural disasters on cultural heritage from a geotechnical perspective.

We look forward to welcoming participants to Almaty for an inspiring and collaborative event that will contribute to innovation and progress in these crucial fields.

Sincerely yours,

Professor Askar Zhussupbekov,

Chairman, Chair TC305 of ISSMGE, Organizing Committee of GIZ 2025

President of Kazakhstan Geotechnical Society



WELCOME MESSAGE

Dear Colleagues and Friends,



On behalf of ATC10 for Urban informatics in ISSMGE and in Japan Geotechnical Society (JGS), I would like to address the welcome message for all participants to GIZ2025. Our commission has mainly focused the way for considering the usage of geotechnical information in urban area and currently involved 3 main topics for studying, BIM & Digital Twin and 3D modelling, Machine learning and Ground water modelling in recent years

As almost every 4 years, our commission has organized international conference on GIS and Geoinformation Zoning for Disaster Mitigation (GIZ). This conference, 6th International Conference on GIS and Geoinformation Zoning for Disaster Mitigation (GIZ2025) is after 5th GIZ at Auckland, NZ in 2018. We appreciate to Kazakhstan Geotechnical Society, JGS, ATC19 and TC305 for the preparation and support for GIZ2025.

We aim to develop the commission activity to new stage through the presentations and discussions in GIZ2025 at historical city, Almaty, along ancient Silk Road and on foot of the Tian Shan Mountains.

We would like to hope to build new and international relationship on the urban informatics and others among the participants at the conference in excellent environment of Almaty.

Sincerely yours,

Associate Professor Takafumi Seiki,
Chair ATC10 of ISSMGE



WELCOME MESSAGE

Dear Colleagues and Friends,



I am delighted to say that Asian Regional Technical Committee 19 (ATC19) is joining the 6th International Conference on GIS and Geoinformation Zoning for Disaster Mitigation (GIZ) as a co-organiser. I hope that all participants enjoy inspiring discussions in this conference.

ATC19 was launched in 2010, named after TC19 of ISSMGE, which has changed its name to TC301. The first chair was Dr. Yoshinori Iwasaki. We are an interdisciplinary team for the preservation of historic sites in Asia. We aim to: 1) exchange techniques for investigations and preservation, 2) encourage interdisciplinary collaborations, and 3) contribute to the investigation and restoration of damaged historic sites from a geotechnical engineering perspective. We deal with a wide range of topics related to the preservation of historic earth/masonry structures, including slope stability, moisture transfer, seismic behaviour, and physicochemical degradation.

In 2023, ATC19 got a new role leading the restoration of historic sites damaged by natural disasters in the Japanese Geotechnical Society. We are now working more actively than ever to assist the restoration of geotechnical structures in castles, shrines, and burial mounds damaged by the 2024 Noto Peninsula Earthquake. This practical project motivates us to study further.

The issues that historic sites are facing are different from site to site, and solutions have not been established; therefore, sharing experience and exchanging thoughts are important. This international conference will be an opportunity for face-to-face intensive discussions and finding your new collaborators.

Sincerely yours,
Dr. Mai Sawada,
Chair ATC19 of ISSMGE



CONFERENCE ADVISORY BOARDS & COMMITTEES

International Advisory Board

Members:

Prof. Mamoru Mimura

Geo-Research Institute, ATC10

Prof. Susumu Yasuda

Tokyo Denki University, ATC10

Prof. Bagdat Teltayev

Joldasbekov Institute of Mechanics and
Engineering, KGS

Dr. Yoshinori Iwasaki

Iwasaki Geo-Engineering Office, ATC19

Prof. Askar Zhussupbekov

Eurasian National University, TC305

Dr. Nurgul Alibekova

Eurasian National University, KGS

Organizing Committee

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Utsunomiya University, ATC10

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Eurasian National University, TC305

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Tokyo Institute of Technology, ATC19

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Scientific Committee

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Denki University, ATC10

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Geo-Research Institute, ATC10

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Tokyo City University, ATC10

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Korea University, ATC19

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Vice President Asia, ISSMGE, Professor,
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Prof. Adimoolam Boominathan

Indian Institute of Technology Madras, TC305

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Technology, TC305

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Xi'an Jiaotong-Liverpool University, TC305

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Indian Geotechnical Society

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Kansai University, ATC10

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Institute of Geology of Tajikistan, TC305

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Kyoto University, ATC19

Mrs. Megumi Kobayashi

OYO Corporation, ATC19

Dr. Soichiro Wakiya

Nara National Research Institute for Cultural
Properties, ATC19

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Eurasian National University, TC305

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Technische Universität Darmstadt, TC305

Prof. Fayzulla Ikramov

Samarkand State University named after Sharof
Rashidovich Rashidov, TC305

Dr. Anil Joseph

Managing Director, Geostructurals Private Limited
and President, Indian Geotechnical Society, ATC19

Prof. Masyhur Irsyam

Institut Teknologi Bandung, TC305

Dr. Erlan Sabitov

Eurasian National University

Prof. Yelbek Utepov

Eurasian National University

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Eurasian National University



ACKNOWLEDGEMENT

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INVITED LECTURES



Keynote I

Authenticity of Foundation of Heritage Structures and Special Character of "Angkor Sand" for the Central Tower of Bayon, Angkor Thom, Cambodia

Dr. Yoshinori IWASAKI

Iwasaki Geo-Engineering Office (Japan)



Keynote II

Utilization of Geoinformatic database and its application to assessment of settlement of the reclaimed marine foundations due to the construction of Kansai International Airport

Prof. Mamoru MIMURA

Emeritus Professor of Kyoto University, Principal Director | Geo-Research Institute (Japan)



Keynote III

Geological application of computerized geotechnical borehole database

Subsurface geology and sedimental environment in Kansai Area

Dr. Naoko KITADA

Director | Geo-Research Institute (Japan)



Keynote IV

Risk assessment of rainfall-induced landslides considering regional characteristics with machine learning

Prof. Tatsuya ISHIKAWA, Ren ONO, Tomoki UENO, Kiyonobu KASAMA

Hokkaido University (Japan)



Keynote V

Development and application of geological and geotechnical information databases in Japan and the ATC10's challenge on uncertainties

Mrs. Rie WADA

Manager, Geospatial Business Department | Kiso-Jiban Consultants co., Ltd (Japan)



Invited I

Spatial and Temporal Analysis of Landslide Susceptibility– for the Case in Taiwan

Prof. Keh-Jian SHOU, SY. SUNG and PL. CHEN

National Chung-Hsing University (Taiwan)



Invited II

Assessment of Soil Contamination in Incheon Harbor Area

Prof. Eun Chul SHIN, Dabeen KIM, Jeong Ku KANG

Incheon National University (South Korea)



Invited III

Design of the First Metro Line in Almaty Crossing Tectonic Fault Zones

N.S. UTEGENOV, A.A. URAZBAYEVA

Chief Engineer of LLP "Metroproekt" (Kazakhstan)



Invited IV

Engineering Solutions for Disaster Mitigation and controlled
demolition techniques for buildings - Case Studies

Dr. Anil JOSEPH, Ashitha JOSEPH and Dhanya J.S.

Geostructurals Pvt Ltd (India)



Special I

Geobrugg experience in changing risk zones to no-risk zones by means
of natural hazard protection measures. Experience in Switzerland and
Kazakhstan

Ph.D. Alexander BARINOV

*PhD Geography, Member of Debris Flow Association, Member of
Avalanche Association, Regional partner of Geobrugg AG Switzerland*



Special II

Soil Mixing Around the World – Application and Solution Examples

Mr. Franz-Werner GERRESSEN

BAUER Maschinen GmbH, (Germany)



Special III

Construction of vertical cut-off walls for reducing exposure to floods

Mr. Waldemar KWIATKOWSKI

Construction Director, Geofocus LLP (Poland)



Special IV

Recent advancement in “Press-in” piling technology: contribution to disaster prevention and mitigation, and attempts for a rational project cycle using piling data

Yukihiko ISHIHARA, Koichi OKADA, Yukinori TODA, Atsushi MORI, Masashi EGUCHI and Naoki SUZUKI

Center Director, Press-in Technology R&D Center, GIKEN LTD (Japan)

Thematic I

Statistical and regression analysis of sand and clay stiffness in triaxial tests

Dr. Rafael SHARAFUTDINOV

Scientific Secretary of RSSMGFE, Director | Gersevanov Research Institute of Bases and Underground Structures (Russia)

Thematic II

Hazardous Geological Processes and Their Impact on the Condition of Architectural Monuments

Prof. Fayzulla Abdullaevich IKRAMOV

Professor | Samarkand State University named after Sharof Rashidovich Rashidov (Uzbekistan)

Thematic III

Geoinformational zoning in addressing hazards from natural disasters

Dr. Daulet SARSENBAYEV

Director | National Scientific Center for Seismological Observations and Research (Kazakhstan)



Bright Spark I

Environmental assessment of pyrolyzed industrial mixed plastic waste

Dr. Balqanym DOSMUKHAMBETOVA, Assem ASKARBAY

Eurasian National University (Kazakhstan)



Bright Spark II

Stabilization and Ecological Restoration of Tailings: Addressing Key Challenges and Future Opportunities

Ph.D. Bharat RATTAN, Ankit GARG, Sreedeeep S, Chen RUI

Postdoctoral Fellow | Harbin Institute of Technology (China)



Bright Spark III

Brittle Failure Mechanism and Evaluation Model of Reef Limestone under Multi-Factor Regulation of Mineral-Pore-Interface Interactions

Mr. Yang LIU, Dong-sheng XU, Askar ZHUSSUPBEKOV

Ph.D candidate in Geotechnical Engineering | Wuhan University of Technology (China)





GENERAL INFORMATION

Conference Info

Theme

GIS and Geoinformation Zoning for Disaster Mitigation (GIZ)

Date

28-30 August 2025

Coffee Break

Venue: Poster Session Area, Ground Floor

Lunch

Venue: Zhuambyl Restaurant, 1st Floor (ticket required)

Welcome Reception

Venue: Grand Hall, Medal ceremony

Gala Dinner

Venue: Zhuambyl Restaurant Room (with terrace), 1st Floor (ticket required)

Official Language

The official language of the GIZ2025 conference is English.

Internet Access

Free WI-FI is available throughout the conference period in conference venue, Hotel Rahat Palace.

Lost and Found

The lost and found items should be returned/claimed at the registration counter.

Certificate of Attendance

Certificate of the attendance will be provided to each registered participant during the check-in process.

Registration & Information Counter

Venue: The lobby of Hotel Rahat Palace

Service Hours: 08:00-17:00 Thursday, August 28.

08:00-17:00 Friday, August 29.





Getting to the Venue (Rahat Palace Hotel)



How to Reach the Venue

To conveniently reach the final destination (hotel, venue, or any point in the city), we recommend using the **Yandex Go** or **UBER** mobile app – a trusted local service for ordering taxis and deliveries.

You can easily book a ride without language barriers, track your driver in real time, and choose from various service levels.

For your convenience, a **QR code** for downloading **Yandex Go** the app is provided below:



Simply scan it and download **Yandex Go** from your app store.



Point A – ***Mailin Street 2***

Point B – ***Satpaev Street 29/6***



Badge Information

The badge will be provided to each registered attendee together with all the necessary coupons onsite upon checking in.

All participants are required to wear the badge all the time during the conference period for recognition.

VIP / INVITED LECTURES	• Participation in the Welcome Reception and Closing Ceremony. • Conference kits (Conference Bag, Badge, and Program Book Included) • Free lunches and coffee-breaks. • Admission to all scientific sessions and industrial exhibition.
DELEGATE	• Participation in the Welcome Reception and Closing Ceremony. • Conference kits (Conference Bag, Badge, Program Book Included) • Free lunches and coffee-breaks. • Admission to all scientific sessions and industrial exhibition.
EXHIBITION	• Participation in the Welcome Reception and Closing Ceremony. • 1 Booth for 1 Conference kits (Conference Bag, Badge, Program Book Included) • Admission to industrial exhibition. • Free lunches and coffee-breaks.
STUDENT	• Participation in the Welcome Reception and Closing Ceremony. • Conference kits (Conference Bag, Badge, Program Book Included) • Admission to all scientific sessions and industrial exhibition. • Free lunches and coffee-breaks.
STAFF	• Please reach the staff if any assistance needed. * Security personnel will allow only persons with badges to enter the meeting rooms.
ACCOMPANYING PERSON	• Participation in the Welcome Reception and Closing Ceremony. • Admission to industrial exhibition. • Free coffee-breaks.

* Badges are not transferable



PROGRAM AT A GLANCE

Time/Date	28 Aug. Thursday		
Venue	GRANDHALL		
9:00-9:30	Opening Ceremony		
9:30-09:55	Keynote Lecture I		
09:55-10:20	Keynote Lecture II		
10:20-10:45	Keynote Lecture III		
10:45-11:20	Coffee Break		
11:20-11:45	Keynote Lecture IV		
11:45-12:10	Keynote Lecture V		
12:10-12:35	Invited Lecture I		
12:35-12:50	Special Lecture I		
12:50-13:05	Special Lecture II		
13:20-14:20	Lunch		
Venue	Hall 1	Hall 2	Hall 3
14:20-14:50	ATC-10 Urban Geo-informatics	TC-305 Geotechnical Infrastructure for Megacities and New Capitals	TC-305 Geotechnical Infrastructure for Megacities and New Capitals
14:50-15:20			
15:20-15:50			
15:50-16:20	Coffee Break		
16:20-16:50	ATC-10 Urban Geo-informatics	TC-305 Geotechnical Infrastructure for Megacities and New Capitals	TC-305 Geotechnical Infrastructure for Megacities and New Capitals
16:60-17:20			
17:20-17:50			MOU between IGS and KGS
18:00-19:30	Welcome Reception		
Registration	8:00-17:00		
Poster session	10:45-11:20; 16:15-16:45		
Exhibition	9:00-18:00		



Time/Date	29 Aug. Friday		
Venue	Hall 1	Hall 2	Hall 3
9:00-9:30	ATC-10 Urban Geo-informatics	ATC-19 Geo-engineering for conservation of heritage monuments and historical sites	TC-305 Geotechnical Infrastructure for Megacities and New Capitals
9:30-10:00			
10:00-10:30			
10:30-11:00	Coffee Break		
11:00-11:30	ATC-10 & ATC-19	TC-305 Geotechnical Infrastructure for Megacities and New Capitals	TC-305 Geotechnical Infrastructure for Megacities and New Capitals
11:30-12:00			
12:00-12:30			
12:30-13:00	Poster Session		
13:00-14:00	Lunch		
Venue	GRANDHALL		
14:00-14:15	Special Lecture III		
14:15-14:35	Invited Lecture II		
14:35-14:55	Invited Lecture III		
14:55-15:15	Invited Lecture IV		
15:15-15:30	Thematic Lecture I		
15:30-15:45	Thematic Lecture II		
15:45-16:00	Thematic Lecture III		
16:00-16:30	Coffee Break		
16:30-16:50	Special Lecture IV		
16:50-17:10	Bright spark Lecture I		
17:10-17:30	Bright spark Lecture II		
17:30-17:50	Bright spark Lecture III		
18:00-18:30	Closing ceremony		
19:00-21:30	GALA DINNER (TICKET REQUIRED)		
Registration	8:00-17:00		
Poster session	10:30-11:00; 12:30-13:00; 16:00-16:30		
Exhibition	9:00-18:30		



DAILY PROGRAM

Thursday, 28 August 2025

9:00-9:30

Opening ceremony

GrandHall

9:30-09:55

Keynote lecture I

GrandHall

Chair: Prof. Keh-Jian Shou

Authenticity of Foundation of Heritage Structures and Special Character of “Angkor Sand” for the Central Tower of Bayon, Angkor Thom, Cambodia

Dr. Yoshinori Iwasaki

Iwasaki Geo-Engineering Office (Japan)

09:55-10:20

Keynote lecture II

GrandHall

Chair: Prof. Eun Chul Shin

Utilization of Geoinformatic database and its application to assessment of settlement of the reclaimed marine foundations due to the construction of Kansai International Airport

Prof. Mamoru Mimura

Emeritus Professor of Kyoto University, Principal Director | Geo-Research Institute (Japan)

10:20-10:45

Keynote lecture III

GrandHall

Chair: Dr. Yoshinori Iwasaki

Geological application of computerized geotechnical borehole database

Subsurface geology and sedimental environment in Kansai Area

Dr. Naoko Kitada

Geo-Research Institute (Japan)

10:45-11:20

Coffee Break

11:20-11:45

Keynote lecture IV

GrandHall

Chair: Prof. Bagdad Teltayev

Risk assessment of rainfall-induced landslides considering regional characteristics with machine learning

Prof. Tatsuya Ishikawa, Ren Ono, Tomoki Ueno, Kiyonobu Kasama

Hokkaido University (Japan)

11:45-12:10

Keynote lecture V

GrandHall

Chair: Dr. Rafael Sharafutdinov

Development and application of geological and geotechnical information databases in Japan and the ATC10's challenge on uncertainties

Mrs. Rie Wada

Kiso-Jiban Consultants Co., Ltd. (Japan)



12:10-12:35	Invited lecture I	GrandHall
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Chair: Prof. Jong-Sub Lee

Spatial and Temporal Analysis of Landslide Susceptibility– for the Case in Taiwan

Prof. Keh-Jian Shou, SY. Sung and PL.Chen

National Chung-Hsing University (Taiwan)

12:35-12:50	Special Lecture I	GrandHall
-------------	-------------------	-----------

Chair: Dr. Zhanbolat Shakhmov

Geobrug experience in changing risk zones to no-risk zones by means of natural hazard protection measures. Experience in Switzerland and Kazakhstan

PhD. Alexander Barinov

PhD Geography, Member of Debris Flow Association, Member of Avalanche Association, Regional partner of Geobrug AG Switzerland

12:50-13:05	Special Lecture II	GrandHall
-------------	--------------------	-----------

Chair: Dr. Balganym Dosmukhambetova

Soil Mixing Around the World – Application and Solution Examples

Mr. Franz-Werner Gerresen

BAUER Maschinen GmbH, (Germany)

13:20-14:20	Lunch	
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14:20-15:50	AsRTC10 «Urban Geo-informatics»	Hall 1
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Chairs: Mrs. Rie Wada

Mr. Tomohiro Yasuda

Principles of creating an effective territorial planning model in complex engineering-geological conditions

Marinichev M. B., Polishchuk A.I., Vadachkoria O. A., Bushueva V. O.

Department "Bases and Foundations", Kuban State Agrarian University named after I. T. Trubilin (Russia)

Changes in land reclamation seen through borehole data

Naoko KITADA, Mamoru MIMURA and Naoto INOUE

Geo-Research Institute (Japan)

Application of the Engineering Geological Database of Taiwan to Develop Vs Prediction Models

Chi-Chin Tsai and Louis Ge

National Taiwan University (Taiwan)

Chung Hsing University (Taiwan)



Creation of the representative ground model utilizing Geo-informatic database and its application to deformation analysis due to reclamation

Mamoru MIMURA, Kenji HAYASGI, Naoko KITADA and Hiroko ITO
Geo-Research Institute (Japan)

Testing GIS techniques for the determination of soil intermediate properties

Indira S. Makasheva, Yelbek B. Utepov, Assel T. Mukhamejanova and Sabit A. Karaulov
Eurasian National University (Kazakhstan)

Innovative approaches to system design considering the mutual influence of urban environment

Silicheva Catherine Dmitrievna, Hüsnü Korhan Ozalp, Demin Nikita Vladimirovich
ELBA ENGINEERING LLC (Russia)

Stability Assessment of Ash Mound Using Traditional and Advanced GIS-enabled Modelling Approaches

Avinash Sajwan, Pranjal Singh, and G. V. Ramana
Indian Institute of Technology Delhi, New Delhi (India)

14:20-15:50

TC-305 Geotechnical Infrastructure for
Megacities and New Capitals

Hall 2

Chairs: Dr. Divya Priya
Mr. Abdurakhim Abdullaev

Simulation of the resistance of a deep-sea soil base by moving loads

Andrey A. Ananyev
Saint Petersburg State University of Architecture and Civil Engineering; (Russia)

Mechanical properties of soil during scenario earthquakes

Mirsayapov Ilizar T. and Koroleva Irina V.
Kazan State University of Architecture and Engineering (Russia)

Assessment of the stability of bulk soils under dynamic loads caused by seismic effects predicted for the conditions of the construction site of a nuclear power facility

E.S. Sobolev, Ya.A. Bogdanov, A.V. Manukyan
Moscow State University of Civil Engineering (Russia)

Efficacy of fly ash-based water-absorbing polymers in improving unsaturated soil properties and promoting vegetation growth under drying conditions

Bharat Rattan, Ankit Garg, Sreedeeep S, Chen Rui, Haowen Guo, Askar Zhussupbekov
Department of Health and Environmental Sciences (HES), Xi'an Jiaotong-Liverpool University, Suzhou (China),
Xi'an Jiaotong-Liverpool University (China),
Harbin Institute of Technology (China),



L.N. Gumilyov Eurasian National University (Kazakhstan)

Influence of deep foundations on high-rise buildings during a seismic impact

Cesar Alfonso Alanoca Chambi

SOCHIGE, SIMSG, ISSMGE (Bolivia)

Experimental study of the physico-mechanical properties of bedrock soils

G.O. Anzhelo, L.YU. Ermoshina, V.A. Lunin

MSUCE (Russia)

Experimental investigation of side resistance in bored piles embedded in rock

Rafael Sharafutdinov, Dmitrii Botanin

Gersevanov Research Institute of Bases and Underground Structures (Russia)

14:20-15:50

TC-305 Geotechnical Infrastructure for
Megacities and New Capitals

Hall 3

Chair: Prof. Louis Ge

Ms. Tatiana Tronda

Geosynthetic-reinforced retaining walls for flooding scour protection

Anna Kuznetsova, Svetlana Park

Soterra Engineering (Russia)

Experimental study of the influence of geosynthetic materials on the strength characteristics of dispersed soils

G.O. Anzhelo, L.YU. Ermoshina, A.O. Kravtsov

Moscow State University of Civil Engineering (Russia)

Deformation characteristics of sand with liquefaction history considering sand particle orientation

Mohammad Mahfujur Rahman, Hirofumi Toyota, Susumu Takada, and Ngoc Bao Le

Nagaoka University of Technology (Japan)

Consideration of input data influence for geotechnical parameter identification of rock dynamics

Rui Huang, Takafumi Seiki and Qinxi Dong

School of Regional Development and Creativity, Utsunomiya University (Japan)

Changes in geotechnical properties of embankments made of crushed solidified soils over time

Atsuko Sato and Masahiko Yamaki

Civil Engineering Research Institute for Cold Region (Japan)

Horizontal Prestressing Effects of Stone Columns: Numerical Insights into Installation and



Analysis Methods

Pavel Dolgov, Wilhelm S. Degen

Geotechfem LLC, Dubai (UAE)

Soilmechanics GmbH (Germany)

16:50-16:20

Coffee Break

16:20-17:50

AsRTC10 «Urban Geo-informatics»

Hall 1

Chairs: Dr. Naoko Kitada

Mrs. Rie Wada

Boring Data Base to Characterize Hidden Active Fault for Urban Safety in Osaka and Almaty

Yoshinori IWASAKI and Askar Zhussupbekov

Iwasaki Geo-Engineering Office (Japan),

Eurasian National University (Kazakhstan)

Insights into liquefaction risk associated with microtopography of Tokyo lowland

K. Ishikawa and S. Yasuda

Tokyo Denki University (Japan)

Seismic Response Study in Krishna-Godavari Offshore Region of India

A. Boominathan, R.Vijaya and V.Bhakya Varshiny

Indian Institute of Technology Madras, Chennai (India)

Development of GIS-Based Mapping for Ground Shaking Susceptibility Using Microtremor in
Densely Populated Areas of Sukumo City, Japan

Tadashi HARA, Muhammad Agra Rully Putra, Masayuki Yamada, Koji Hada

Kochi University (Japan)

Glacier Lake Outburst Flood (GLOF) Hazard Assessment and Modelling in parts of Himalaya

Lucky Shukla, Ajanta Goswami

Indian Institute of Technology Roorkee (India)

Landslide Dam Hazard Zonation in the Alaknanda Catchment, Uttarakhand, India Using
Frequency Ratio Modelling

Shivani Joshi, Srikrishnan Siva Subramanian

Indian Institute of Technology Roorkee (India)

Preliminary Note on Utilization of Geo-informatics Database - Spatial Visualization and
Clustering

Naoto Inoue

Geo-Research Institute (Japan)



16:20-17:50	TC-305 Geotechnical Infrastructure for Megacities and New Capitals	Hall 2
Chairs: Prof. Ikramov Fayzulla Prof. Khomyakov Vitaliy		
Damage measures of low-rise building foundations on layered sands due to earthquake impacts <i>D.W. Chang, S.H. Cheng, L. Ge, A. Zhussupbekov, and R. K.-N. Wong</i> <i>Tamkang University (Taiwan)</i> <i>Taiwan Building Technology Center, National U. of Science and Technology (Taiwan)</i> <i>Department of Civil Engineering, National Taiwan University</i> <i>Sanshin Corporation (Taiwan)</i> <i>Department of Civil Engineering, L.N. Gumilyov Eurasian National University (Kazakhstan)</i> Dynamic Analyses of a Fill Dam by Elasto-Plastic Constitutive Models Tadatsugu Tanaka <i>University of Tokyo (Japan)</i> Effect of strength reduction factor on settlement of a single pile <i>V.V. Sidorov, A.S. Almakaeva, A.Z. Ter-Martirosyan</i> <i>Moscow State University of Civil Engineering (National Research University) (Russia)</i> Numerical Analysis on Response of Battered Pile under Combined Lateral and Uplift Loading <i>Vaishnavi Pandey, B. Janaki Ramaiah and Ramanathan Ayothiraman</i> <i>Indian Institute of Technology Tirupati (India)</i> Studying the mixing of problematic soils <i>Lamyaa Najah Snodi</i> <i>Department of Civil Engineering, College of Engineering, University of Tikrit (Iraq)</i> Unlocking the Potential of Construction Waste Reuse in Slovenia: Challenges and Solutions <i>Tamara Bračko, Bojan Žlender and Borut Macuh</i> <i>University of Maribor (Slovenia)</i>		

16:20-17:50	TC-305 Geotechnical Infrastructure for Megacities and New Capitals	Hall 3
Chairs: Dr. Rafael Sharafutdinov Dr. Ankit Garg		
Case Study of Retaining Wall Reinforcement on Slope Stability <i>M.H. Ahn, B.S. Kim, W.H. Kim, S.K. Lee, C.M. Kim, J.K. Kang</i>		





Semyung University (Republic of Korea)

Study of rutting on roads of Shymkent city

B.B. Teltayev, G. Loprencipe, U. Kalybayev, E. Aitbayev and A. Zhaisanbayev

LLP "Road Research and Production Center" (Kazakhstan)

Fast-moving seismically induced hazardous geological phenomena in South-Eastern

Kazakhstan as a factor in assessing natural hazards and ways of their systematic mitigation

A. Abdullaev, V. Borisov, E. Yesenzhigitova, A. Urkembayeva

LLP "National Scientific Seismological Observations and Research" Ministry of Emergency Situations of the Republic of Kazakhstan (Kazakhstan)

Results of demercurisation works in Central Kazakhstan and monitoring of ecological state of the environment

Kamberov I.M., Duisebayeva T., Abdullaev A.U., Ilyushchenko M., Nussbaumer M.

LLP "National Scientific Seismological Observations and Research" Ministry of Emergency Situations of the Republic of Kazakhstan (Kazakhstan)

NAC Kazatomprom JSC, Volkovgeologiya JSC (Kazakhstan)

AUEC (Kazakhstan)

"Posch & Partners" Consulting Engineers (Austria)

18:00-19:30

Welcome Reception

GrandHall

Chairman: Dr. Shyngys Zharassov





Friday 29 August 2025

9:00-10:30

AsRTC10 «Urban Geo-informatics»

Hall 1

Chairs: Dr. Takafumi Seiki
Dr. Rui Huang

Regional modeling for flood simulation using MIKE+ and MIKE SHE

*Akbilek Seitmukhanbet, Alfrendo Satyanaga, Robby Yussac Tallar, Sung-Woo Moon, Jong Kim
Nazarbayev University (Kazakhstan)*

Universitas Kristen Maranatha (Maranatha Christian University), Bandung (Indonesia)

Debris Flow Modelling using FLO-2D

*Luiza Tanzhanova, Alfrendo Satyanaga, Budijanto Widjaja, Sung-Woo Moon, Jong Kim
Nazarbayev University (Kazakhstan)*

Universitas Katolik Parahyangan, Jawa Barat (Indonesia)

Simple methods for measuring groundwater levels to estimate damage to low-rise housings
due to liquefaction

Susumu Yasuda and Keisuke Ishikawa

Tokyo Denki University (Japan)

On detailed seismic zoning of regions of Kazakhstan using GIS technologies

Natalya Silacheva

National Center for Seismological Observations and Research, MES RK (Kazakhstan)

Application of GIS to assess permafrost degradation in southern Taimyr

P.I. Kotov, A.Yu. Gunar

Fedorovsky Polar State University (Russia)

Development of an accessible remote method for monitoring landslide processes

Habibov F.G., Zeynalov F.Z., Bayramova K.K.

Azerbaijan Scientific Research Institute of Construction and Architecture (Azerbaijan),

Azerbaijan Architectural and Construction University (Azerbaijan)

AI-Powered Smart Sensors for Enhancing Safety in Mining and Construction

Kumar Pradeep, JS Dhanya, Askar Zhussupbekov

Onlilo Technologies LLP (India)

Conticorium Technologies Pvt. Ltd (India)

L.N. Gumilyov Eurasian National University (Kazakhstan)



9:00-10:30	AsRTC19 «Geo-engineering for conservation of heritage monuments and historical sites»	Hall 2
Chairs: Dr. Mai Sawada Prof. Yukiyasu Fujii		
Geotechnical investigations in earthquake-damaged burial mounds toward restoration <i>Mai Sawada, Tomoya Ikeuchi and Tamotsu Fujita</i> <i>Institute of Science Tokyo (Japan)</i> Development of GIS for monitoring of dams in Kazakhstan: processing, analyses, and functionality <i>Kamila Tanyrbergenova, Balgaisha Mukanova, Tolkyn Mirgalikyzy, Nurtilek Assankhan, Arynbek Bekdaulet, and Abulkhair Islamov</i> <i>Department of Computer Engineering, Astana IT University, Astana</i> <i>Department of Computer and Software Engineering, L.N.Gumilyov Eurasian National Faculty of Information Technology, Abay Myrzakhmetov Kokshetau University (Kazakhstan)</i> Seismic and resistivity surveys to assess the damage to the Sakuradani Kofun tumuli caused by the Noto earthquake <i>Yutaro Hara, Shotaro Hijikata, Reiko Kuwano</i> <i>The university of Tokyo (Japan)</i> <i>Institute of Industrial Science (Japan)</i> Artificial Stone Construction and its Heritage Structures in Japan: Traditional and Ecological Method for SDGs <i>Yukiyasu Fujii, Kantetsu Asano, Takehiro Amano, Kentaro Iwashita, Koki Takeuchi</i> <i>Department of Civil Engineering, Faculty of Science and Technology, Meijo University (Japan)</i> Mapping Geological Hazards – Problems and Trends <i>Ivan Bogdanov, Pavel Alexandrov, Ilya Bezruchko</i> <i>GEOIZOL Project LLC (Russia)</i> Features of the construction of buildings in the historical center of the city <i>Elena Gryaznova</i> <i>National Research Moscow State University of Civil Engineering (Russia)</i> Accounting for resonant phenomena in the upper layers of dispersed soils in predicting the dynamic behavior of pile foundations <i>Leonid V. Nuzhdin and Victor S. Mikhailov</i>		





Novosibirsk State University of Architecture and Civil Engineering (Russia)

Underpinning of historical buildings, geotechnical and structural engineering

Kari Christer Avellan

KAREG Consulting Engineers (Finland)

9:00-10:30

TC-305 Geotechnical Infrastructure for
Megacities and New Capitals

Hall 3

Chairs: Dr. Pavel Dolgov

Dr. Anora Karimova

Establishing characteristics of cyclic freeze-thaw of a road pavement and subgrade in Almaty region

B.B. Teltayev, G. Loprencipe, G.I. Salgarayeva and A.N. Muta

Kazakh National Women's Teacher Training University (Kazakhstan)

Change of seismic properties of the base as a result of soil strengthening by deep mixing method

Khomyakov Vitaliy, Yemenov Yusuf, Zhamek Nurken, Dursynov Said, Kanatova Zhanna, Aliev Ismat

Kazakh Leading Academy of Architecture and Civil Engineering, Department of Civil Engineering (KazGASA) (Kazakhstan)

Kazakh Research Institute of Construction and Architecture (Kazakhstan)

Geological features of rough masses in landslide sites in the area of motor roads along mountain slopes

Aymurzaev A., Kutlumuratov B., Kiyalbayev A., Sagybekova A., Abdykalykov A, Madanbekov N.

Department of Transport Construction and Production of Building Materials (Kazakhstan)

N. Isanov Kyrgyz State University of Construction, Transport and Architecture (KSUCTA), Bishkek (Kyrgyzstan)

Geotechnical fiber-optic monitoring of the technical condition of bridges and tunnels in the Arctic coastal infrastructure

S.Kudryavtsev, I.Granev, D.Tsvigunov, T.Valtseva and I.Shestakov

Department of Bridges and Tunnels, FESTU, Khabarovsk (Russia)

Tech Pro Industries, Moscow (Russia)



Justification of changings in parameters of stressed-strained state of oil-contaminated sandy soils

*Rashid A. Mangushev, Alina V. Kvashuk, Alena V. Belkova, Anna A. Tatarinova
Saint-Petersburg State University of Architecture and Civil Engineering (Russia)*

Application of hemihydrate and dihydrate calcium sulfate in road constructions

*Talal Awwad, Pavel A. Kravchenko, Baira B. Galdgaeva, and Tatyana B. Ivanskaya
Emperor Alexander I Petersburg State Transport University, Saint Petersburg (Russia)*

10:30-11:00

Coffee Break

11:00-12:30

AsRTC10 «Urban Geo-informatics»
AsRTC19 «Geo-engineering for conservation
of heritage monuments and historical sites»

Hall 1

ATC10 Chairs: Dr. Naoto Inoue
Dr. Lamyaa Najah Snodi

ATC19 Chairs: Dr. Mai Sawada
Dr. J.S Dhanya

Study on Methods for Extracting Landslide Risks Using Airborne LiDAR Data on Expressways

*Katsushi Sasak, Koji Nishimura and Toko Takayama
Nippon Expressway Research Institute Company Limited (Japan)
iAsia Air Survey Company Limited (Japan)*

Use of sand covers for soil moisture control in archaeological sites

*Wei Wo and Mai Sawada
Institute of Science Tokyo (Japan)*

Detection of Landslide Potential Based on Regular Deformation Using DInSAR: A Case Study of Taipei City

*Kuo-Lung Wang, Jun-Tin Lin, Min-Hsi Hsieh, Huei-Ling Lin, and Wei Fang
National Chi Nan University (Taiwan)
RST Inc., Puli, Nantou (Taiwan)
Taipei City Government, Taipei (Taiwan)*

Underground space of a metropolis. A case history

*A.Shaposhnikov, A.Misuk and D.Antonenko
Gersevanov Research Institute of Bases and Underground Structures, Department for Soil*



improvement, Moscow

*Research Institute of Bases and Underground Structures, Department for Soil improvement,
Moscow (Russia)*

Borehole information system and subsurface modelling using GIS

Divya Priya Balasubramani, Kanagavel P and Prasanna P

*Assistant Professor, Institute of Remote Sensing, Department of Civil Engineering, Anna
University, Chennai (India)*

Integration of 3D Geological Model and Architectural Model for Design and Construction of
Bored Tunnel in Singapore

Keisuke Tada, Tomohiro Yasuda

Kiso-Jiban Consultants Co., Ltd. Singapore Branch (Singapore)

Snow Avalanche Hazard Zonation in the Indian Himalayas: A case study of Rudraprayag
region, Uttarakhand, India

Joshal Kumar Bansal, Ajanta Goswami, Snehmani

Defence Geoinformatics Research Establishment (DGRE)

Indian Institute of Technology Roorkee (India)

11:00-12:30

TC-305 Geotechnical Infrastructure for
Megacities and New Capitals

Hall 2

Chairs: Dr. Tatsuya Ishikawa
Prof. Bagdad Teltayev

Advance preparedness for earthquakes is the key to seismic safety

Pulod Aminzoda

*leading researcher, Institute of Geology, Earthquake Engineering and Seismology of the
National academy of sciences of Tajikistan*

Results of numerical modeling of ground improvement with rigid inclusions as dry concrete
columns

Tatiana Tronda

Association of Surveying Organizations and Geological Engineers (Belarus)

Dynamic stability evaluation of underground structures considering back analysis of rock
mechanics parameters: a case study of the Oya tuff quarry

Rui Huang, Takafumi Seiki and Qinxi Dong

Xihua University (China),



*Utsunomiya University (Japan),
Hainan University (China)*

Patterns of Activation and Manifestation of Landslide Processes (on the Foothill Slopes of the Zarafshan Oasis, Uzbekistan)

Fayzulla Ikramov, Muqim Yakubov, Akbar Ravshanov, Ziya Normamatov, Mamatkul Amirkulov

Samarkand State University named after Sharof Rashidovich Rashidov (Uzbekistan)

Seismic resistance of continuous monolithic bridges, accounting for post-tensioning cable tension during the interaction between support foundations and soil

Ibrakhim Mirzaev, Ulugbek Shermukhamedov, Askar Zhussupbekov, Abdurakhim Abdullaev, Anora Karimova, Dilbar Askarova

Tashkent State Transport University, Tashkent (Uzbekistan)

L.N. Gumilyov Eurasian National University, Astana (Kazakhstan)

Influence of fibre and carbon negative material on the stability of infinite slopes

Anuj Pal, Akash Ramenini, Bharat Rattan, Ankit Garg, Neelima Satyam and Askar Zhussupbekov

Xi'an Jiaotong-Liverpool University (China)

Harbin Institute of Technology (China)

L.N. Gumilyov Eurasian National University (Kazakhstan)

11:00-12:30

TC-305 Geotechnical Infrastructure for
Megacities and New Capitals

Hall 3

Chairs: Prof. Tadatsugu Tanaka
Dr. Anatoliy Osokin

The concept of employing monitoring systems on roadways and railways situated in permafrost regions, with consideration of potential climate change

K. Usherovich, I. Granev, A. Cherkasov, D. Epifantsev, R. Paliy and S. Artamonova
PC «TECH PRO INDUSTRIES» LLC, Moscow (Russia)

Department «Transport Construction in Extreme Conditions», Moscow (Russia)
Russian university of transport (Russia)

Unlocking the Potential of Construction Waste Reuse in Slovenia: Challenges and Solutions

Tamara Bračko, Bojan Žlender and Borut Macuh
University of Maribor (Slovenia)

Underpinning and deep foundations load transfer of a ten-storey building in Lisbon



Alexandre Pinto, Carlos Martins, Catarina Fartaria, Rui Tomásio
JETSj Geotecnia (Portugal)

Dewatering and its complexities in design and implementation
Silicheva Catherine Dmitrievna, Hüsnü Korhan Ozalp, Demin Nikita Vladimirovich
Mining University, Saint-Petersburg (Russia)
Elba engineering llc (Russia)

Justification of the choice of dust suppression materials for roadside areas with low coverage
and construction sites: international and Kazakhstan experiences
Kutlumuratov B., Sagybekova A., Mukashev D., Kiyalbayev A
Department of Transport Construction and Production of Building Materials (Kazakhstan)

Detection of the unbonded sections of fully grouted rock bolts using acoustic waves
Seonghun Kang, Jong-Sub Lee
School of Civil, Environmental and Architectural Engineering, Korea University (South Korea)

A study of ground vibration characteristics of Sakuradani Tomb damaged during the 2024
Noto Peninsula Earthquake using microtremor measurements
Kohei Hara, Tomofumi Koyama and Mai Sawada
Kansai University (Japan)

12:30-13:00

Poster Session

13:00-14:00

Lunch

14:00-14:15

Special Lecture III

GrandHall

Chair: Dr. Abilkhair Issakulov

Construction of vertical cut-off walls for reducing exposure to floods
Mr. Waldemar Kwiatkowski
Geofocus LLP (Poland)

14:15-14:35

Invited lecture II

GrandHall

Chair: Prof. Mirsayapov Ilizar

Assessment of Soil Contamination in Incheon Harbor Area
Prof. Eun Chul Shin, Dabeen Kim, Jeong Ku Kang
Incheon National University (South Korea)



14:35-14:55	Invited lecture III	GrandHall
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Chair: Dr. J.S. Dhanya

Design of the First Metro Line in Almaty Crossing Tectonic Fault Zones

N.S. Utegenov, A.A. Urazbayeva

LLP "Metroproekt" (Kazakhstan)

14:55-15:15	Invited lecture IV	GrandHall
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Chair: Dr. Alexandre Pinto

Engineering Solutions and Case Studies in Disaster Mitigation

Dr. Anil Joseph, Ashitha Joseph and Dhanya J.S.

Geostructurals Pvt Ltd (India)

15:15-15:30	Thematic lecture I	GrandHall
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Chair: Dr. Fayzulla Ikramov

Statistical and regression analysis of sand and clay stiffness in triaxial tests

Dr. Rafael Sharafutdinov

Gersevanov Research Institute of Bases and Underground Structures (Russia)

15:30-15:45	Thematic lecture II	GrandHall
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Chair: Dr. Alfredo Satyanaga

Hazardous Geological Processes and Their Impact on the Condition of Architectural Monuments

Prof. Fayzulla Abdullaevich Ikramov

Samarkand State University named after Sharof Rashidovich Rashidov (Uzbekistan)

15:45-16:00	Thematic lecture III	GrandHall
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Chair: Prof. Adimoolam Boominathan

Geoinformational zoning in addressing hazards from natural disasters

Dr. Daulet Sarsenbayev

National Scientific Center for Seismological Observations and Research (Kazakhstan)

16:00-16:30	Coffee break	
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16:30-16:50	Special Lecture IV	GrandHall
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Chair: Prof. Sergey Kudryavtsev

Recent advancement in "Press-in" piling technology: contribution to disaster prevention and mitigation, and attempts for a rational project cycle using piling data





Yukihiro ISHIHARA, Koichi OKADA, Yukinori TODA, Atsushi MORI, Masashi EGUCHI and Naoki SUZUKI

Center Director, Press-in Technology R&D Center, GIKEN LTD (Japan)

16:50-17:10	Bright Spark Lecture I	GrandHall
Chair: Prof. Keh-Jian Shou		
Environmental assessment of pyrolyzed industrial mixed plastic waste <u>Dr. Balganym Dosmukhambetova, Assem Askarbay</u> Eurasian National University (Kazakhstan)		
17:10-17:30	Bright Spark Lecture II	GrandHall
Chair: Prof. Tadashi Hara		
Stabilization and Ecological Restoration of Tailings: Addressing Key Challenges and Future Opportunities <u>Ph.D. Bharat Rattan, Ankit GARG, Sreedeeep S, Chen RUI</u> Postdoctoral Fellow Harbin Institute of Technology (China)		
17:30-17:50	Bright Spark Lecture III	GrandHall
Chair: Dr. Irina Koroleva		
Brittle Failure Mechanism and Evaluation Model of Reef Limestone under Multi-Factor Regulation of Mineral-Pore-Interface Interactions <u>Dr. Yang Liu, Dong-sheng XU, Askar ZHUSSUPBEKOV</u> Ph.D candidate in Geotechnical Engineering Wuhan University of Technology (China)		
18:00-18:30	Closing ceremony	GrandHall
19:00-21:30	GALA DINNER (TICKET REQUIRED)	Zhuambyl Restaurant Room
Chairman: Prof. Yelbek Utepov		



POSTER SESSION

10:45-11:20	Poster session 1-1 / 28.08.2025	Poster session area
Calculation of building sediments taking into account the creep of the base soils composed of dislocated Proterozoic (Cambrian) clays <u>H.Z. Bakenov, S.A. Kudryavtsev</u> St. Petersburg State University of Architecture and Civil Engineering (Russia) Application of Airborne Laser Scanning for Monitoring Deformations of the Nadym–Salekhard Highway under Permafrost Conditions <u>A. Erofeev, S. Shemyakov, S. Pogrebnyak, O. Li and A. Sinitsky</u> Problem Research Laboratory of Glacioclimatology, National Research Tomsk State University, Tomsk Tomsk State University of Architecture and Building, Tomsk Geotechnics Sector, Arctic Research Center, Salekhard (Russia) GIS-based landslide risk assessment in Karo Regency, North Sumatera, Indonesia <u>Ika Puji Hastuty, Fauziah Ahmad and Sania Salwa Ferahain</u> ISSMGE University Geotechnical University Universitas Sumatera Utara (Indonesia) Computational justification of the use of protective measures in the construction of excavation pits in dense urban areas on weak soils <u>Mangushev R.A., Osokin A.I., Kalach F.N., Maltseva K.A.</u> Saint-Petersburg State University of Architecture and Civil Engineering (Russia) Modeling of stress strain state of water saturated weak soil when injected along the lateral surface of the pile to increase bearing capacity of the bored pile <u>Kozyrev K.S., Kondratieva L.N., Voznesenskaya E.S., Osokin A.I.</u> Saint-Petersburg State University of Architecture and Civil Engineering (Russia) Information modelling in geotechnics <u>G. Boldyrev, I. Idrisov, A. Ivanov</u> LTD "NPP-Geotek" (Russia)		

15:50-16:20	Poster session 1-2 / 28.08.2025	Poster session area
Investigation of laboratory and field tests of piles installed by displacement technology <u>Askar Zhussupbekovi, Abdulla Omarov, Abilkhair Issakulov, Isatai Utebayev, Samat</u>		



Zhekeyev and Ryskulov Begim

L.N. Gumilyov Eurasian National University, Astana

Department Transport equipment, transportation organization and construction, Aktobe Regional University named after K. Zhubanov (Kazakhstan)

Thermodynamic parameters of earthquake swarms

I.N. Litovchenko and V.S. Lyutikova

Leading Researcher Laboratory of Geodynamic and Seismic Processes National Scientific Center for Seismic Observations and Research (NSCSR EMERCOM RK)

Master of Engineering and Technology, Junior Research Fellow Laboratory of Geodynamic and Seismic Processes, National Scientific Center for Seismic Observations and Research (NSCSR EMERCOM RK) (Kazakhstan)

Enhancing Slope Stability Under Extreme Rainfall Conditions Through Biomineralization Technology

Yuyuan Chen, Hemanta Hazarika, Nadella Marchelina

Kyushu University (Japan)

Effect of rice husk ash geopolymer amendments on the strength of sandy soils

Taichi Hyodo, Keigo Fujishima and Masafumi Tateda

Department of Environmental and Civil Engineering, Toyama Prefectural University (Japan)

The influence of engineering and geological conditions on the zoning of urban development

Assem Abisheva, Nurgul Alibekova, Saltanat Mussakhanova, Ilyas Zhumadilov, Kaldybai Arynov

L.N. Gumilyov Eurasian National University (Kazakhstan)

Toraighyrov University, Pavlodar (Kazakhstan)

Shakarim University, Semey (Kazakhstan)

Environment - preservation and development of folk crafts in the settlement structure of Kazakhstan

K.K. Arynov, Sh.Zh.Surankulov, N.A.Tursynbaev, S.Sh.Sadykova, A.K. Abisheva

L.N. Gumilyov Eurasian National University (Kazakhstan)

Department of Architecture and design Kazakh Agrotechnical Research University named after S. Seifullin, Astana (Kazakhstan)

10:30-11:00

Poster session 2-1 / 29.08.2025

Poster session area

Quantitative Risk Assessment of Ground Deformations in Azerbaijan Onshore Petroleum and Gas Fields

E. Bayramov, M. Buchroithner, M. Kada, J. Neafie, A. Duisenbiev and S. Aliyeva
Nazarbayev University, Astana (Kazakhstan)



Dresden University of Technology, Dresden (Germany)
Technical University of Berlin, Berlin (Germany)
Kazakhstan Maritime Academy, Kazakh-British Technical University, Almaty (Kazakhstan)
ADA University, Baku (Azerbaijan)

Experimental study of changes in the patterns of freezing and thawing of the ground base of the pavement

K.A. Aitbaev, K.B. Tileu and M.B. Zhumamuratov
Department of the Scientific Research Center, KazdorNII JSC, Almaty
KazdorNII JSC, Astana
Department of Science, KazdorNII JSC, Astana (Kazakhstan)

Case Study of Retaining Wall Reinforcement on Slope Stability

M.H. Ahn, B.S. Kim, W.H. Kim, S.K Lee, C.M. Kim and J.K. Kang
Disaster and Safety Engrg., Semyung University
Dept. of Civil Engineering., Daejin University
Dept. of Civil and Environmental Engrg., Incheon National University
Incheon Disaster and Prevention Center, Incheon National University (Korea)

Reconstruction of the ventilation system of the automobile tunnel of Too-Ashuu named after K.Kolbaev

S. U. Isagalieva, Zh. M. Ganiev, G.A. Kadyralieva, Meimanbek kyzy Aizirek and B.T. Djakupbekov
Kyrgyz State Technical University named after I.Razzakov, Bishkek (Kyrgyzstan)

Application of geosynthetic materials to increase the strength of road foundation soils

Mukashev D., Kutlumuratov B., Baratova T.
Department of Transport Construction and Production of Building Materials (Kazakhstan)

Retrofitting Urban Drainage Systems to Mitigate Flooding: A Case Study of Groundwater-Induced Basement Flooding at Semey Emergency Hospital, Kazakhstan

A. Sarsembayeva, G. Orazbekova, I. Zhumadilov, G. Sadvakassova, K. Babosinova and Rakhman Kazybek
Shakarim University, Semey
Nazarbayev University, Astana (Kazakhstan)

12:30-13:00

Poster session 2-2 / 28.08.2025

Poster session area

The main risk factors in soil reinforcement using by "Geocomposite" method

Dmitry Chunyuk, Selviyan Serafima
MGSU (Russia)

Geotechnical analysis of the causes of dam failure in Central Kazakhstan and recommendations for its rehabilitation



Zhanbolat A. Shakhmov, Gulshat T. Tleulenova and Khafiz Kairat

L.N. Gumilyov Eurasian National University (Kazakhstan)

Geotechnical support for mechanical safety of underground water supply structures taking into account complex soil conditions and extraordinary impacts

Nikolai A. Perminov

Emperor Alexander I St. Petersburg Transport University (Russia)

Numerical study of bearing capacity of composite stone column

Sharaf Hani M.

KSUAE University (Russia)

Load-bearing capacity of span structures of transport facilities under dynamic effects

Saule Dostanova, Saulet Shayakhmetov, Erkin Isakhanov, Zaure Kalpenova, Kamilya Tokpanova, Gulsum Kasymova

Satbayev University (Kazakhstan)

Application of Electrical Tomography for Studying the Lithological Structure of Foundation Soils for the Construction of a Unique High-Rise Building in Astana

Nuguzhinov Zh.S., Zhumadilova N.Zh. and Beketova M.S.

KazMIRD Institute of the NJC "KarTU named after Abylkas Saginov", Karaganda (Kazakhstan)

"KarTU named after Abylkas Saginov", Karaganda (Kazakhstan)

16:00-16:30

Poster session 2-3 / 29.08.2025

Poster session area

Evaluating the Effect of Groundwater Table Variations on the Seismic Resilience of Residential Buildings in Almaty City

Amanbayev Chingis, Nazari Azizulla, Shakhmov Zhanbolat

L.N. Gumilyov Eurasian National University (Kazakhstan)

Study of the Stiffness of Floor Diaphragms Made of Hollow-Core Reinforced Concrete Slabs

U. Altigenov, A. Bespaev, A. Tulebekova

L.N. Gumilyov Eurasian National University (Kazakhstan)

Kazakh Research and Design Institute of Construction and Architecture Investment (JSC "KazNIISA"), Almaty (Kazakhstan)

Behavior of sandy soils of different particle sizes under dynamic loads

Lidiya N. Kondratieva, Vyacheslav M. Polunin, Konstantin V. Mchedlidze and Alexandra V. Vagurina

St. Petersburg State University of Architecture and Civil Engineering (Russian Federation)

Study of seismic hazard in Zhambyl region of Kazakhstan

Aigul Danabayeva, Zauresh Sailaubayeva, Asel Katubayeva



National Scientific Center for Seismological Observation and Research LLP, The Ministry of Emergency Situations RK (Kazakhstan)

Monitoring of permafrost conditions in built up areas with thermal imaging

Ilyichev V.A., Nikiforova N.S., Abramova E.V., Konnov A.V.

Scientific-Research Institute of Building Physics of the Russian Academy of Architecture and Construction Sciences, Moscow (Russia);

National Research Moscow State University of Civil Engineering (Russia)

Study of the possibility and efficiency of using geosynthetic reinforcement of weak soils in seismic-prone regions of Kazakhstan

N. V. Survtseva, T. D. Abakanov

National Scientific Center for Seismological Observations and Research of the Ministry of Emergency Situations of the Republic of Kazakhstan (Kazakhstan)

Investigation of Pile-Soil Interaction in Bridge Foundations for Complex Ground Conditions

Bibigul Abdrakhmanova, Akira Hasegawa, Askar Zhussupbekov, Gaukhar Nigmatova

Kazakhstan Geotechnical Society (Kazakhstan)

L.N. Gumilyov Eurasian National University, Astana

Investigation of the bearing capacity of drilling piles by field testing under static loads

A. Zhussupbekov, A. Mukasheva, N. Shakirova, G. Zhairbayeva and Ruslan Bazilov

L.N. Gumilyov Eurasian National University (Kazakhstan)

Manager of "KGS-Astana" LLP, Astana (Kazakhstan)

Assessment of the bearing capacity of driven piles in subsiding soils based on static tests

Askar Zhussupbekov, Eun Chul Shin, Gulnaz Zhairbayeva, Nurgul Shakirova, Ruslan

Bazilov, Almaqul Mukasheva

Eurasian National University (Kazakhstan)

Incheon National University Incheon National University Incheon (South Korea)

"KGS-Astana" LLP, Astana (Kazakhstan)



EXHIBITORS INFORMATION

ILMI SOLUTIONS OY

E1



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ILMI SOLUTIONS OY (Finland) is the official representative of LLAMADA S.L. (Spain), which is designing and manufacturing LLAMADA pile drilling rigs without any compromises for all common pile drilling techniques as:

-CFA, -DTH, -FDP, -SP, -CP, -CMC, -soilmixing, -micropiles.

ILMI is designing and supplying monitoring applications and special components to pile drilling industry.

LLAMADA pile drilling rigs significantly differ from competitor's rigs and provides following advantages:

-high drilling capacity, -compact size, -high stability, -minimal weight, -very long piles without Kelly extension

LLAMADA is the reliable supplier and partner to professional piling companies around the world.

LLP «KGS-ASTANA»

E2 & S1



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KGS-ASTANA

KGS-Astana Limited Liability Partnership (LLP) was established in May 2002, We render the following services: pile driving, installing of bored piles, testing of soils and all types of piles, geological investigations and piles testing. Having wide working experience, advanced equipment and highly qualified staff the company is able to perform any volume of work related to installation of pile foundations and their scientific and technical support. KGS- Astana is equipped by the most reliable and high-technology rigs, such as Bauer, Junttan and etc.



GEOBRUGG AG (LLP «GEOSTEIN»)

E3 & S3



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Safety is our nature - true to this guiding principle, we have been developing and manufacturing protection solutions since 1951. High-strength steel wire nets and matching services monitor and protect against natural hazards such as rockfall, landslides, debris flows, avalanches or coastal erosion. They ensure safety in mining and tunneling as well as on motor sports tracks, in industry and in test facilities. With experience, a spirit of research, continuous internal training and close cooperation with research institutes, we drive innovation and industry standards. TOO Geostein is the official representative of Geobrugg AG in Kazakhstan, Almaty.

SENSORS ONE LLP

E4



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Sensors ONE LLP provides a full range of Engineering Services for the Development and Implementation of Automated Geotechnical Monitoring Systems, which includes the following stages: Pre-design Survey of the site; Development of Technical Solutions; Development of Design Documentation; Instrumentation Supply; Software Supply; Installation and Commissioning; Putting into Commercial Operation Training of Service Personnel; Technical and Service Maintenance.

Our geotechnical monitoring tools allow us to monitor changes in key parameters of the site such as ground displacement (settlement or lateral movement), groundwater levels, dam seepage, etc. We, as a team of professionals with 10 years of systematized experience in the Mining Industry, successfully implement geotechnical monitoring projects at the following sites: Tailings Dams, open pits, mines, ash ponds. We are the authorized distributor of RST Instruments Ltd. and Sommer Messtechnik in the countries of Central Asia.



MALININSOFT

E5



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MalininSoft software is designed to various types of underground structures calculations: strength and stability of pit fences with anchors and spacers, stability of slopes, settlement of slab foundations. A distinctive feature of MalininSoft programs is interface simplicity and convenience, which allows you to calculate different options and choose right design solution quickly.





SPONSORS INFORMATION

LLP «KGS-ASTANA»

S1 & E2



KGS-ASTANA

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BAUER MASCHINEN GMBH

S2



MASCHINEN

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Specialist foundation engineering machinery from Bauer has been a byword for top performance and quality and for continuous innovation since the late 1960s. BAUER Maschinen GmbH, which designs and manufactures rotary drilling rigs, diaphragm wall equipment and all related tools, has been operating on the market as an independent entity within the BAUER Group since 2001. With the subsidiaries of BAUER Maschinen GmbH we provide the full range of specialist foundation engineering equipment and equipment for exploration, mining and safeguarding of valuable natural resources.



GEOBRUGG AG (LLP «GEOSTEIN»)

S3 & E3



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Website	https://www.geosteин.kz

Safety is our nature - true to this guiding principle, we have been developing and manufacturing protection solutions since 1951. High-strength steel wire nets and matching services monitor and protect against natural hazards such as rockfall, landslides, debris flows, avalanches or coastal erosion. They ensure safety in mining and tunneling as well as on motor sports tracks, in industry and in test facilities. With experience, a spirit of research, continuous internal training and close cooperation with research institutes, we drive innovation and industry standards. TOO Geostein is the official representative of Geobrugg AG in Kazakhstan, Almaty.

«GEOFOCUS» LLP

S4



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Geofocus LLP, the geotechnical specialist contractor providing a wide portfolio of advanced foundation and ground improvement techniques used across the entire construction sector. Geofocus LLP offers a wide range of technologies for ground improvement, retaining structures and deep excavations, ensuring the stability of slopes, as well as special injection grouting, including design and monitoring.



«SPECINGGEO» LLP

S5



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«SpecIngGeo» LLP is a Kazakhstan-based engineering company providing a full range of services in the field of engineering surveys. We conduct geotechnical, geophysical, and geodetic investigations, as well as field and laboratory soil testing. The company operates its own fleet of drilling rigs, geophysical instruments, dilatometers, advanced measurement systems, and equipment for the construction of bored piles. Our key clients include Qarmet (Atansor mine, mine water accumulation pond), KGS Astana (Ertis Hydrometallurgical Plant), KazNIPI (engineering surveys for the MGIMO branch campus in Astana). Our portfolio covers industrial, residential, and infrastructure projects across Kazakhstan. We rely on advanced technologies, our in-house equipment, and strict compliance with national and international standards.

STUDIO PROF. MARCHETTI S.R.L.

S6



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Studio Prof. Marchetti is the Italian manufacturing company and patent owner of the following in situ geotechnical equipment: Marchetti Flat Dilatometer (DMT), Seismic Dilatometer (SDMT) and Automated Dilatometer (Medusa (S)DMT). The company headquarters and laboratories are located in Rome (Italy). All products are manufactured, assembled and tested inhouse. Since 1980, the international distribution is active in over 85 countries in 6 continents. The equipment was employed successfully in numerous international projects, onshore and offshore.

The company is constantly active in research projects, mostly in cooperation with academic international partners, published in technical journals and conference proceedings. Over 300 technical presentations were delivered in International Conferences, Universities and Research Institutes worldwide.



GERSEVANOV RESEARCH INSTITUTE OF BASES AND UNDERGROUND STRUCTURES (NIIOSP NAMED AFTER N.M. GERSEVANOV) JSC RESEARCH CENTER OF CONSTRUCTION S7



Joint Stock Company

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Website www.niiosp.ru

A structural subdivision of JSC Research Center of Construction, Gersevanov Research Institute of Bases and Underground Structures (NIIOSP named after N.M. Gersevanov) is a leading in Russia and well-known all over the world specialist institute operating in the field of soil mechanics, geotechnical engineering, foundation and underground construction. The Institute provides solutions to a comprehensive range of geotechnical engineering issues and offers multiple geotechnical services including engineering and geotechnical surveys, research, geostructural design and construction of foundations and underground structures. NIIOSP delivers geotechnical solutions for the most complex ground conditions and design challenges. Our top priority is to ensure safety and stability of a construction project and surrounding infrastructure, and to provide quality control to the project throughout its lifecycle. Possessing contemporary experimental facility and skilled-in-the-art personnel, Institute develops new efficient decisions on foundations and underground structures. NIIOSP is the first to render services on scientific and technical support for design and construction of remarkable and unique facilities.

«LUKOS ENGINEERING» LLP

S8



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Our organization provides comprehensive services in structural inspection of buildings and facilities, industrial safety expertise, as well as non-destructive testing and defectoscopy of technically complex devices and equipment.



KARAGANDA SURVEY INSTITUTE LLP

S9



**KARAGANDA
SURVEY INSTITUTE**

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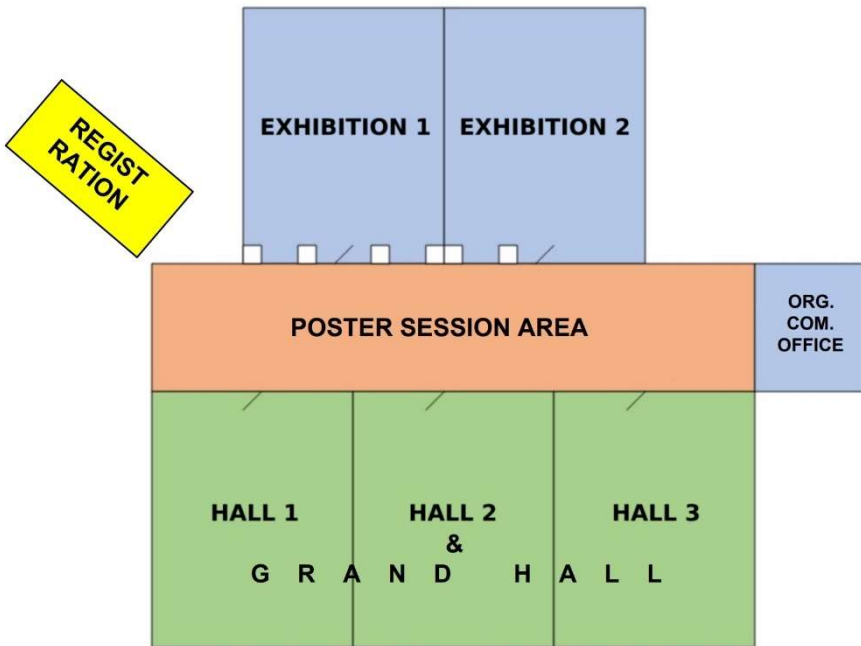
Our company offers a full range of engineering-geological and engineering-geodetic surveys necessary for preparing project documentation, obtaining expert approval, and successfully implementing construction projects.

Our services help minimize risks, reduce costs, and ensure compliance with regulatory requirements. We operate throughout Kazakhstan, carrying out surveys of any complexity with full support and a quality guarantee.

We have our own trained team of highly qualified specialists in all areas of engineering and surveying, equipped with drilling rigs, a laboratory base, and all the necessary permits. Our experienced geologists, geophysicists, hydrogeologists, surveyors, drilling rig operators, laboratory technicians, and other specialists are ready to complete the most complex surveying tasks promptly and to the highest standard.



GROUND FLOOR



Session's rooms / Space		
Hall 1	Session room	Keynote, Invited, Special, Thematic, Bright Spark Lectures
Hall 2	Session room	
Hall 3	Session room	
Exhibition 1	Exhibition, Coffee break	
Exhibition 1	Exhibition, Coffee break	
Poster session area	Poster sessions, Coffee break	



Technical Tour

№	Time (from to)	Name of sites
1	7:30 – 8:00	Rahat Palace Hotel (Almaty)
2	8:20 – 9:00	Installation of debris flow protective netting by Geobrugg AG along Dostyk Avenue, Almaty
3	11:00 – 12:00	Medeu Debris-Flow Retention Dam , Almaty
4	13:00 – 14:00	Medeu – Shymbulak Mountain cableway with an ascent to an altitude of 3,200 m above sea level and a descent to 1,691 m (Medeu) – Route length: 4,500 m (Almaty)
5	15:00	Rahat Palace Hotel (Almaty))

The technical tour is scheduled to take place approximately from **8:00 to 17:00**.

The total route length is around with **≈ 80 km**, **3 planned stops at key locations**.

Please note that the timing may slightly vary depending on traffic conditions and unforeseen circumstances.



Thank you for your understanding!

For any questions about **Technical Tour**, please contact **Dr. Abdulla Omarov**.

 **WhatsApp: +7 707 846 6622,**

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This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



Group photo of Organizing Committee of the VI International Conference on GIS and Geoinformation Zoning for Disaster Mitigation

Almaty, Kazakhstan

Almaty is the largest city and former capital of Kazakhstan, located in the foothills of the majestic Trans-Ili Alatau mountains in the southeast of the country. Known as the cultural, economic, and educational hub of Kazakhstan, Almaty harmoniously combines modern urban development with stunning natural landscapes. The city is surrounded by picturesque mountain peaks, lush valleys, and crystal-clear rivers, offering a unique blend of vibrant city life and pristine nature.

Almaty's architecture reflects both its historical heritage and contemporary growth — from classical Soviet-era buildings to modern skyscrapers and business centers. It is home to significant landmarks such as the Kok-Tobe Hill, the Medeu high-altitude ice-skating rink, the Shymbulak ski resort, and the Central State Museum of Kazakhstan. The city is also famous for its green spaces, including Panfilov Park and the Botanical Garden.

As a major venue for international events, Almaty hosts forums, cultural festivals, and sports competitions, attracting guests from all over the world. Its unique atmosphere, rich history, and breathtaking mountain backdrop make it a true gateway to the heart of Central Asia.