

Time	26 April 2023	
	REGISTRATION 09:00 – 10:00	
	Opening Speech	
10:00 - 10:50	Gulchohra H. Mammadova Rector of the Azerbaijan University of Architecture and Construction Doctor of Architecture, Professor, Honoured Architect	
	Representative Ministry of Science and Education Republic of Azerbaijan	
	Representative State Committee on Urban Planing and Architecture of the Republic of Azerbaijan	
	Azer A. Kasimzade Congress Chair, Professor of Structural Engineering DSc	
	International Cooperation Agreements' Signing Ceremony	

Session: Earthquake Engineering I Chairs: Akira Wada, Azer A. Kasimzade	
10:50 - 11:10	<i>E-Isolation: High-performance Dynamic Testing Installation for Seismic Isolation Bearings and Damping Devices</i> Akira Wada Japan
11:10 - 11:30	<i>Recent Developments in Non-Destructive Testing and Structural Health Monitoring Technology</i> Tribikram Kundu United States of America
11:30 - 11:50	<i>New Structural Seismic Isolation System for Tower Structures</i> Azer A. Kasimzade, Emin Nematli* Azerbaijan
Coffee Break 11:50- 12:20	
Session: Earthquake Engineering II Chairs: Mustafa Erdik, Carlos E. Ventura	
12:20 - 12:40	<i>Instrumentation and Field Testing of Bridges – Case Studies</i> Carlos E. Ventura Canada

12:40 - 13:00	<p><i>Design Basis Ground Motion for Long Period Structures</i> Mustafa Erdik*, Mine Betül Demircioğlu Tümsa Turkey</p>
13:00 - 13:20	<p><i>Seismic Isolation: Application and Recent Developments in Italy</i> Clemente Paolo Italy </p>
Lunch 13:20- 14:50	
<p>Session: Earthquake Engineering III Chairs: Haluk Sucuoglu, Humberto Varum</p>	
14:50 - 15:10	<p><i>Seismic Design and Performance Assessment of a Super Tall Concrete Core Wall Building in Istanbul</i> Haluk Sucuoglu*, Erhan Budak, Ozan Cem Çelik Turkey</p>
15:10 - 15:30	<p><i>Seismic Design of RC Buildings: Field Lessons, Codes and Research Outputs</i> Humberto Varum Portugal</p>

15:30 - 15:50	<p><i>Seismic Design and Evaluation of High-Performance Modular Tall Steel Building</i></p> <p>Tony Yang, A.G. Baghmisheh S. Lepine-Lacroix, and S. F. Fathizadeh</p> <p>Canada</p>
Coffee Break 15:50- 16:20	
<p>Session: <i>Earthquake Engineering IV</i></p> <p>Chairs: <i>Andreas J. Kappos, Alper Ilki</i></p>	
16:20 - 16:40	<p><i>Fragility Assessment of Bridges Using the Component-Based Approach</i></p> <p>Andreas J. Kappos</p> <p>United Arab Emirates, United Kingdom.</p>
16:40 - 17:00	<p><i>Shaking Table Experiments – Gathered Experience and Knowledge Through Years</i></p> <p>Zoran Rakicevic, Aleksandra Bogdanovic</p> <p>Macedonia</p>
17:00 - 17:20	<p><i>An Overview on the Structural Monitoring, Assessment and Retrofitting of Historical Structures with a Focus on 13th Century Monuments</i></p> <p>Alper Ilki*, Pinar Inci, Omer F. Halici, Cem Demir, Mustafa Comert, Fikret Kuran,</p> <p>Turkey</p>
17:20 – 18:00	<p><i>Review of Dynamic Soil-Structure Interaction Models in View of Earthquake Engineering</i></p> <p>Shahin Huseynli, Flavia De Luca, Dimitris Karamitros</p> <p>United Kingdom </p>

	<p><i>Mathematical Cuisine of Earthquake Engineering Problems</i> Nigar M.Aslanova Azerbaijan</p>
	<p><i>Seismic Protection of Buildings Using Seismic Isolation Devices</i> R.A.Rzayev Azerbaijan</p>
	<p><i>Study of Effectiveness of 'Outrigger and Belt' Systems in Ensuring Earthquake Resistance of High Buildings</i> V.M.Aliyev Azerbaijan</p>
	<p><i>Investigation of Influence of The Local Ground Conditions on The Seismic Hazard of a Construction Site</i> Jamila N. Imamaliyeva Azerbaijan</p>
	<p><i>Methods of Consideration for Anomalous Changes in The Physical and Mechanical Properties of Soils During Earthquakes in The Areas of Construction Work</i> N.V.Qarayeva Azerbaijan</p>

*Theoretical Foundations for The Study of Seismic
Resistance of Bent Reinforced Concrete Elements*



Gulnara Kh.Jabrayilova




Azerbaijan



*Seismological Issues in The Earthquake Resistance of
Buildings (As an Example in Azerbaijan)*


Etibar S. Garavaliyev

Azerbaijan

Time	27 April 2023
<p style="text-align: center;">REGISTRATION 09:00 – 10:00</p>	
<p style="text-align: center;">Session: <i>Earthquake Engineering V</i> Chairs: <i>Eizaburo Tachibana, Azer A. Kasimzade</i></p>	
<p style="text-align: center;">10:00 - 10:20</p>	<p><i>About Some Issues Related to The Development of Building Earthquake Code</i> Abdi Qarayev, A. Canmirzeyev Azerbaijan</p>
<p style="text-align: center;">10:20 - 10:40</p>	<p><i>Challenges To Detailed Finite Element Analysis of Entire Building Structures</i> Yosunori Mizushima, Yoichi Mukai, Eizaburo Tachibana Japan </p>
<p style="text-align: center;">10:40 - 11:00</p>	<p><i>Seismic Performance Evaluation of Traditional Japanese Wooden Houses with Outer-frame Reinforcement</i> Yoichi Mukai Japan </p>
<p style="text-align: center;">11:00 - 11:20</p>	<p><i>The New Criterion on Performance Based Seismic Design with Application to High-Rise Building</i> Azer A. Kasimzade, Serra Danis* Azerbaijan</p>

Coffee Break 11:20 - 11:50	
Session: Earthquake Engineering VI Chairs: Murat A. Erberik, Mehmet Kuruoglu	
11:50 - 12:10	<p><i>Seismological, Geotechnical and Structural Aspects of the 2023 Kahramanmaras Earthquake Sequence</i></p> <p>Murat A. Erberik, A. Askan, M.K. Kockar, A. Altindal, M.F. Aydin, A.E. Ozsimsir, G. Sahin</p> <p>Turkey </p>
12:10 - 12:30	<p><i>The Contribution of Natural Seismic Base Isolation on the Durability of Traditional Japanese Structures</i></p> <p>Azer A. Kasimzade, Yoichi Mukai, Gencay Atmaca, Sertac Tuhta, Mehmet Kuruoglu*, Aytaj Aliyeva</p> <p>Azerbaijan -Turkey</p>
12:30 - 12:50	<p><i>3D CEL-FE Numerical Analysis of Blast wave Pressure on Buried Water Pipeline Subjected to Subsurface and Surface Blast Explosions, and Dynamic Response</i></p> <p>S.M.Anas, Mehtab Alam, Farman Saifi, Faris A. Uriayer, Ajmal Paktiawal</p> <p>India </p>
Lunch 12:50- 14:20	
Session: Earthquake Engineering VII Chairs: İsmayıl Sadiqov, Mukhlis Hajiyev, Samira Akbarova,	
14:20 - 14:40	<p><i>Investigation of Corner Failure Mechanisms of Masonry Structures Caused by the 6 February 2023 Kahramanmaras Earthquakes in Malatya</i></p> <p>Kaan Kaatsız</p> <p>Turkey </p>

14:40 - 15:00	<p><i>Experimental Study on Out-of-plane Behaviour of Masonry Walls Strengthening with Carbon Fiber Reinforced Polymer Sheets</i></p> <p>Mahmut Cem Yılmaz, Muhammet Mudar Yasin, Ömer Mercimek</p> <p>Turkey </p>
15:00 - 15:20	<p><i>Observations on the Failure Mechanisms of Masonry Structures Caused by the Kahramanmaraş Earthquake on February 6, 2023</i></p> <p>Ömer Mercimek, Yaşar Erbaş, Mehmet Salih Türker, Sercan Tuna Akkaya, Özgür Anıl, Azer A. Kasımlı</p> <p>Turkey </p>
Coffee Break 15:20- 15:50	
<p>Session: Earthquake Engineering VIII</p> <p>Chairs: Sachli A. Ganiyeva, İsa Yüksel</p>	
15:50 - 16:10	<p><i>Bond Behavior of Sand-Coated GFRP Rebar Embedded in Concrete</i></p> <p>Gökhan B Sakcalı*, Serkan Sağıroğlu, İsa Yüksel</p> <p>Turkey </p>
16:30 - 16:50	<p><i>Investigation of Corner Failure Mechanisms of Masonry Structures Caused by the 6 February 2023 Kahramanmaraş Earthquakes in Malatya</i></p> <p>Ömer Mercimek, Yaşar Erbaş, Mehmet Salih Türker, Sercan Tuna Akkaya, Özgür Anıl, Azer A. Kasımlı</p> <p>Turkey </p>

<p>16:50 - 17:10</p>	<p><i>Design Deficiencies and Failure Modes in Reinforced Concrete Structures: The Case of Kahramanmaraş Earthquake</i> Yaşar Erbaş, Ömer Mercimek*, Mehmet Salih Türker, Özgür Anıl, Sercan Tuna Akkaya, Azer A. Kasımlı Turkey </p>
<p>17:10 – 18:00</p>	<p><i>The role of geodesy measurements in the forecast of earthquakes</i> Sachli A. Ganiyeva*, Telli E. Jabiyeva Azerbaijan</p> <hr/> <p><i>On The Determination of Underground and Above-Ground Parts of Buildings in Terms of Structural Calculation Scheme</i> Zeynalov Latif Majid, Hajiyev Mukhlis Ahmad, Polukhov İlham Khalil, Asadov Elchin Ziraddin Azerbaijan</p> <hr/> <p><i>Assessment of effect of fire cut-offs on air exchange in ventilated air gap of hinged building facade systems</i> Samira M. Akbarova*, Reyhan S. Akbarli Azerbaijan</p> <hr/> <p><i>The History of Earthquakes in Azerbaijan</i> Mubariz Agalarlı Azerbaijan</p>

	<p><i>Problems of Physical and Geometric Non-linear Deformation of Plates and Bearing Shells</i> İsmayıl R. Sadıqov Azerbaijan</p>
	<p><i>Research of The Earthquake Resistance of Flame Towers Complex</i> Shakir A.Mamedov, İlqar Q.Aliyev, Tukezban J.Hasanova Azerbaijan</p>
	<p><i>Determination of The Ground Vibration Wavelength By Earthquake Frequency</i> Tukezban J. Hasanova, Tural Sh. Mammedli Azerbaijan</p>
	<p><i>Seismic impact on hydraulic structures</i> Aydin Y.Piriyev Azerbaijan</p>
	<p><i>Elastoplastik bending of a rectangular beam</i> Amirxan B. Sazairov Azerbaijan</p>
	<p><i>Evaluation Of Circular Prestressing Effect on Condeep Platform Storage Reservoirs Using Mechanical Principles</i> Seymur Bashirzade, Okan Ozcan, Rafail Garibov Turkey </p>

<p><i>Free Dances of a Ring-Reinforced, Shear-Damaged Cylindrical Cover in Contact with Second-Elastic Soil and Fluid</i></p> <p>Fuad S. Latifov, İlham C.Mardanov, Polad. Sadıqov Azerbaijan</p>
<p><i>Influence of Tall Buildings on Existing Urban Area in Terms of Earthquake Engineering</i></p> <p>Emir F. Huseynov Azerbaijan</p>
<p><i>Seismic Situation in The Caspian Sea as A Basis for Joint Action</i></p> <p>Gunay Kh. Mammadli, Konul S. Gafarbayli Azerbaijan</p>

28 April 2023

SOCIAL PROGRAM

A tour to the historical and architectural monuments on Absheron Peninsula, visiting Dagustu Park (Upland Park), Funicular, Old City Baku (Icheriseher), Palace of the Shirvanshahs and Carpet Museum