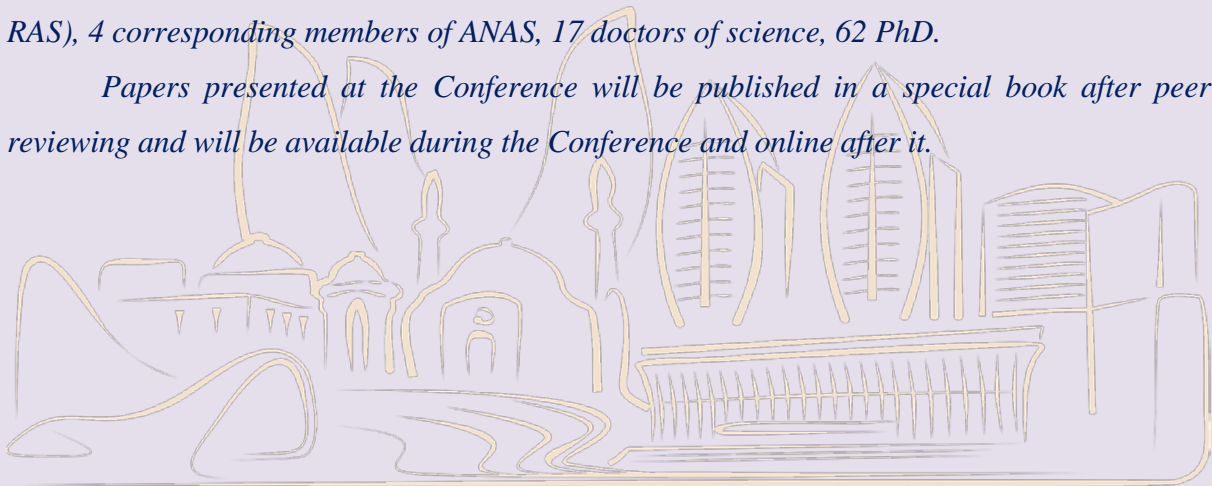


**INFORMATION TECHNOLOGIES IN SOLVING MODERN PROBLEMS OF
GEOLOGY AND GEOPHYSICS**

International Scientific Conference of Young Scientists and Students, organized by Institute of Geology and Geophysics (IGG) of Azerbaijan National Academy of Sciences (ANAS) is an important scientific event covering fundamental and applied aspects of modern geology. The First Conference (held in 2005) was dedicated to the 60th anniversary of ANAS. Since 2005, this scientific event has become a tradition and held in Baku once in two years. Young scientists and students from different countries, such as Germany, USA, India, Chile, Turkey, Georgia, Russian Federation, Poland etc. participated in previous conferences. Now, after 13 years the VII International Scientific Conference is dedicated to the 80th anniversary of IGG.

GGI was founded in 1938. During long period, the Institute has become a large organization, a major center of fundamental and applied research. The Institute structure includes 24 research departments, the National Data Center of Azerbaijan, established in 2003 on the initiative of Preparative Committee of Comprehensive Nuclear Test-Ban-Treaty-Organization (CTBTO), Centre of common use of the analytical devices and equipment. The Institute staff 108 researchers, including 5 academicians of ANAS (1 corresponding member of RAS), 4 corresponding members of ANAS, 17 doctors of science, 62 PhD.

Papers presented at the Conference will be published in a special book after peer reviewing and will be available during the Conference and online after it.



Conference is organizationally supported by the Institute of Geology and Geophysics (GGI) and Azerbaijan National Academy of Sciences

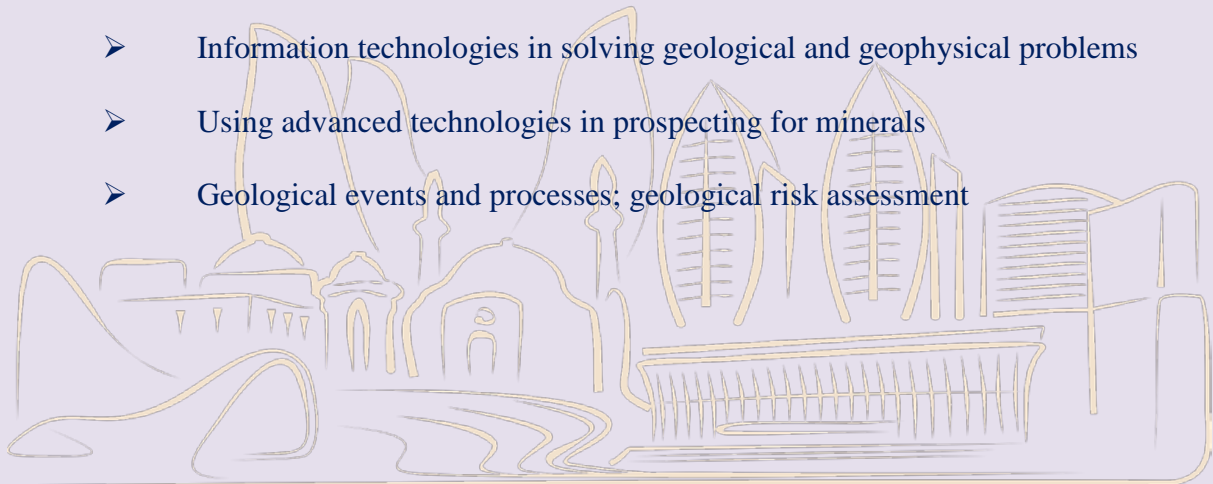


The Conference is financially supported by:



Topics of the Conference:

- New approaches and methods in investigation of the Earth's crust
- Information technologies in solving geological and geophysical problems
- Using advanced technologies in prospecting for minerals
- Geological events and processes; geological risk assessment



Scientific Organizing Committee

Chairman:	Feyzullayev Akper	Prof., Dr. Sc. (Geol.-min.), Academician of ANAS
Co-chairman:	Abbasov Orhan	PhD in Earth Sciences, Associate Professor, Chairman of Council of Young Scientists and Specialists (CYSS) of GGI ANAS
Secretary:	Djabrailova Aysel	Secretary of CYSS
Huseynov Dadash		Dr. Sc. (Geol.-min.), Corresponding member of ANAS
Aliyeva Elmira		Dr. Sc. (Geol.-min.), Corresponding member of ANAS
Kangarli Talat		Dr. Sc. (Geol.-min.), Corresponding member of ANAS
Latifova Yegana		PhD in Earth Sciences, Associate Professor
Babayev Gulam		Dr. in Earth Sciences, Associate Professor
Aliyev Ali		PhD in Mathematical Sciences, Co-chairman of CYSS
Baloglanov Elnur		Member of CYSS
Qojayeva Nabat		Member of CYSS
Akhundov Ruslan		Member of CYSS
Suleymanova Fatima		Member of CYSS
Bashirov Orhan		Member of CYSS
Asgarova Arzu		Member of CYSS



FIRST DAY

		October 15, 2018		
09 ³⁰	10 ³⁰	Registration ANAS Central Library of Science (Main hall)		
10 ³⁰	13 ⁰⁰	Opening Ceremony		
<ul style="list-style-type: none"> • Akif Alizadeh President of the Azerbaijan National Academy of Sciences, Academician • Akper Feyzullayev Chairman of the Conference Organizing Committee, Dr. Sc. (Geol.-min.), Academician • Famin Salmanov Chairman of the Council of Young Scientists and Specialists of ANAS, PhD in Physics, Associate Prof. • Orhan Abbasov Chairman of the Council of Young Scientists and Specialists of GGI, PhD in Earth Sciences, Associate Prof. • Arzu Javadova BP, Petroleum Systems Analyst, Phd • Ian Lerche Martin Luther University of Halle-Wittenberg, Germany, Dr., Prof. 				
11 ⁴⁰	13 ⁰⁰	Plenary Session		
Venue		ANAS Central Library of Science (Main hall)		
Chairman		Academician Akper Feyzullayev		
11 ⁴⁰	12 ⁰⁰	Cengiz Yıldırım (PhD, Associate Prof.)	<i>Application of cosmogenic surface exposure dating in tectonic geomorphology: Examples from offset alluvial fans, fluvial terraces and normal fault scarps</i>	Turkey
12 ⁰⁰	12 ²⁰	Svetlana Kokh (PhD)	<i>Geochemistry of mud volcano products on Kerch Peninsula</i>	Russia
12 ²⁰	12 ⁴⁰	Márk Szijártó (PhD student)	<i>Numerical investigation of the interaction of forced and free thermal convection in basin-scales groundwater flow systems</i>	Hungary
12 ⁴⁰	13 ⁰⁰	Kanan Abbasov (PhD Candidate)	<i>Estimation of crystallization depth of</i>	Azerbaijan

Information technologies in solving modern problems of Geology and Geophysics

			<i>the Gadabay intrusion on the base of iron-titan oxide minerals geothermobarometry</i>	
13⁰⁰	14²⁰	Lunch		
Venue		Master class ANAS Central Library of Science (Main hall)		
14²⁰	15²⁰	Dr., Prof. Ian Lerche	<i>Geological risk of finding oil and gas in a basin</i>	Martin Luther University of Halle-Wittenberg, Germany
16⁰⁰	17³⁰	Baku City Tour (The Azerbaijan Carpet Museum; Shirvanshakh's Palace, Old City)		

SECOND DAY

		October 16, 2018		
Venue		GGI – Small hall		
Session		Information technologies in solving geological and geophysical problems		
Chairman		Dr. in Earth Sciences, Associate Prof. Gulam Babayev (Azerbaijan)		
Co-chairman		PhD student Olga Gaydalenok (Russia)		
10⁰⁰	10²⁰	Mubasher Ahmad	<i>Static reservoir modeling to evaluate reservoir quality of Samana Suk formation of middle Indus Basin, Pakistan</i>	Pakistan
10²⁰	10⁴⁰	Petr Dergach	<i>Digital correction of geophone records for recovery of the signal low-frequency component</i>	Russia
10⁴⁰	11⁰⁰	Konul Alizade	<i>4D Seismic Time-Shift Analysis</i>	Azerbaijan
11⁰⁰	11²⁰	Nedim Gökhan	<i>Matlab based gravity data processing GUI: Gravpack</i>	Turkey
		Coffee Break		
12⁰⁰	12²⁰	Timur Tsagan-Mandzhiev (PhD)	<i>Improving methods of reservoir parameters determination with hydrodynamic analysis</i>	Russia
12²⁰	12⁴⁰	Moataz Barakat (PhD)	<i>Contribution of NMR technology to petrophysical evaluation of the Nezzazat reservoirs in central</i>	Egypt

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			<i>province, gulf of Suez, Egypt</i>	
12⁴⁰	13⁰⁰	Olga Gaydalenok (PhD student)	<i>Using Google Earth in neotectonic studies</i>	Russia
13⁰⁰	14²⁰	Lunch		
14²⁰	14⁴⁰	Kamran Mammadov (PhD student)	<i>The basin modeling researches applying in the Kura basin</i>	Azerbaijan
14⁴⁰	15⁰⁰	Daria Savchik	<i>Analysis of hydrocarbon systems of sedimentary basins in Eastern Siberia. Capabilities and practical experience</i>	Russia
15⁰⁰	15²⁰	Elif Meriç (PhD student)	<i>The Relationship between Seismic Lines, Gravity, Magnetic Maps and Heat Flow in Western Anatolia</i>	Turkey
15²⁰	15⁴⁰	Ivan Agapkin	<i>Geophysical methods for determination properties of frozen soils</i>	Russia
15⁴⁰	16⁰⁰	Mohamed Salem Oudeika (PhD student)	<i>Ground-penetrating radar and geoelectrical numerical modelling</i>	Turkey
		Coffee Break		
16⁴⁰	17⁰⁰	Kseniya Kanakova	<i>Applying of special software for integrated interpretation of seismic data (CDP) and well logs at exploration of HC fields</i>	Russia
17⁰⁰	17²⁰	Yuliya Pugovkina	<i>Improved reservoirs zones determination in Paleozoic formations of Nuroi depression (Tomsk oblast)</i>	Russia
17²⁰	17⁴⁰	Alexey Faguet	<i>Electrical resistivity tomography and 3D numerical modeling for aquifer mapping in Novosibirsk region</i>	Russia
17⁴⁰	18⁰⁰	Furkan Gül	<i>GPR and seismic characterization of subsurface heat gallery at the Itu Ayazaga campus, Istanbul</i>	Turkey

		October 16, 2018		
Venue		GGI – Great hall		
Sessions		Using advanced technologies in prospecting for minerals; Geological events and processes; geological risk assessment		
Chairman		Dr. Sc. (Geol.-min.), Academician Akper Feyzullayev (Azerbaijan)		
Co-chairman		PhD in mathematical Sciences Valery Ershov (Russia)		
10 ⁰⁰	10 ²⁰	Olga Loktionova	<i>Geological model and oil-gas-potential of the Lower and Middle</i>	Russia
10 ²⁰	10 ⁴⁰	Hassan Tamassoki	<i>Identification of iron anomaly and lineaments using remote sensing (ASTER & OLI) in Haji-Gak area, Afghanistan</i>	Afghanistan
10 ⁴⁰	11 ⁰⁰	Maksim Solovev (PhD)	<i>Seismogeological methods for identifying Paleozoic oil and gas prospects in the southeast of West Siberia</i>	Russia
11 ⁰⁰	11 ²⁰	Alexander Kalinin (PhD)	<i>Seismogeological criteria for Upper Jurassic reservoir prediction of the southeast regions of West Siberia</i>	Russia
		Coffee Break		
12 ⁰⁰	12 ²⁰	Nurlan Suvarov	<i>Fresh groundwater resources of the Kusar foothill plain and prospects for their use</i>	Azerbaijan
12 ²⁰	12 ⁴⁰	Keti Benashvili (PhD)	<i>Structural-Geological Position and Genesis of Upper Svaneti Gold Occurrences</i>	Georgia
12 ⁴⁰	13 ⁰⁰	Hamid Hajinia	<i>Microfacies and dolomitization of the Asmari Formation in the East Paydar Oil Field, SW of Iran</i>	Iran
13 ⁰⁰	14 ²⁰	Lunch		
14 ²⁰	14 ⁴⁰	Alaa Hamdon (PhD)	<i>Seismotectonic evaluation of the earthquake dated at 12 Nov.2017 at Iraqi-Iranian border</i>	Iraq
14 ⁴⁰	15 ⁰⁰	Reyhankhanim Ganiyeva	<i>Study of genesis of sedimentary bodies lateral growth in South Caspian Basin</i>	Azerbaijan

Information technologies in solving modern problems of Geology and Geophysics

15 ⁰⁰	15 ²⁰	Ekaterina Markina	<i>Sedimentary modelling using Dionisos Flow software: Prognosis of reservoirs distribution</i>	Russia
15 ²⁰	15 ⁴⁰	Nino Kobakhidze	<i>Structural and Stratigraphic Architecture in Paleogene Extensional Sedimentary Basin: An Example from the Eastern Achara-Trialeti Fold-and-Thrust Belt, Georgia</i>	Georgia
15 ⁴⁰	16 ⁰⁰	Valery Ershov (PhD)	<i>Mud volcanoes of Sakhalin Island – advance for the last ten years</i>	Russia
 Coffee Break				
16 ⁴⁰	17 ⁰⁰	Oleg Filippov	<i>Geomechanical modeling of the stressed state in the vicinity of the well</i>	Russia
17 ⁰⁰	17 ²⁰	Svitlana Stadnichenko (PhD)	<i>Pore Space Evolution Related to Fluid (Brine)-Rock Interaction Processes: Case Study in Kopylivska Gas Field (Dnipro-Donets Depression, Ukraine)</i>	Ukraine
17 ²⁰	17 ⁴⁰	Olga Emelianenko	<i>Petroleum system evaluation of the regions with complex tectonic settings</i>	Russia
17 ⁴⁰	18 ⁰⁰	Valery Ershov (PhD)	<i>About the relation between mud volcanic activity and earthquakes</i>	Russia

THIRD DAY

		October 17, 2018		
Venue		GGI – Great hall		
Session		New approaches and methods in investigation of the Earth's crust		
Chairman		PhD in Earth Sciences, Associate Prof. Orhan Abbasov (Azerbaijan)		
Co-chairman		PhD Abdelnasser Mohamed (Egypt)		
10 ⁰⁰	10 ²⁰	Abdelnasser Mohamed (PhD)	<i>Seismic site characterization for earthquake hazard mitigation at a planned</i>	Egypt

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			<i>industrial city, Aswan, Egypt</i>	
10 ²⁰	10 ⁴⁰	Sercan Kayın (M.Sc)	<i>Paleomagnetic reconstruction of the Varto Fault Zone, Eastern Turkey</i>	Turkey
10 ⁴⁰	11 ⁰⁰	Viktoriia Osypenko (PhD)	<i>Accessory minerals trace element geochemistry as a tool for carbonatites genetic features study</i>	Ukraine
11 ⁰⁰	11 ²⁰	Bobur Janibekov	<i>Tectonic stress and geodynamic condition of ore-grade gold formation of Auminzatau mountains (Central Kyzyl Kum)</i>	Uzbekistan
 Coffee Break				
12 ⁰⁰	12 ²⁰	Ian Savitskii	<i>Features the petrophysical characteristics of terrigenous and carbonate reservoirs using X-ray tomography core</i>	Russia
12 ²⁰	12 ⁴⁰	Gulzat Kadyralieva	<i>Features of the rock massif in the zones of influence of tectonic disturbances in the gold deposits of Kyrgyzstan</i>	Kyrgyzstan
12 ⁴⁰	13 ⁰⁰	Emin Gurbanov (PhD student)	<i>A statistical and graphical study of reservoir core samples from Absheron fields</i>	Azerbaijan
13 ⁰⁰	14 ²⁰	Lunch		
14 ²⁰	14 ⁴⁰	Aleksander Serdyukov (PhD)	<i>The surface wave phase velocity estimation based on S-transform</i>	Russia
14 ⁴⁰	15 ⁰⁰	Ekaterina Kaneva (PhD)	<i>Petrographic, mineragraphic and crystal-chemical methods integration: charoititic rocks of Murun massif (Russia) case</i>	Russia
15 ⁰⁰	15 ²⁰	Sabuhi Mammadov (PhD)	<i>Ore distribution, types, paragenesis and sulfidation state evolution of the ore fluid of the Gedabek deposit</i>	Azerbaijan
15 ²⁰	15 ⁴⁰	Sofya Mezhelovskaya (PhD)	<i>U-Pb zircon dating of precambrian sedimentary</i>	Russia


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			<i>complexes</i>	
15⁴⁰	16⁰⁰	Nadezhda Kanygina	<i>Zircon age determinations of the schists from the Koyandy complexes (the Zheltau terrane, Southern Kazakhstan)</i>	Russia
 Coffee Break				
16⁴⁰	17⁰⁰	Najiba Hozeh	<i>Evaluation of environmental damage caused by the extraction placer iron deposits using remote sensing techniques in Sangan Khaf area, Iran</i>	Iran
17⁰⁰	17²⁰	Dániel Kalmár (PhD student)	<i>Moho depth determination from P receiver function analysis in the Carpathian Basin</i>	Hungary
17²⁰	17⁴⁰	Hadi Karimi	<i>Mineralogical, geochemical and petrological study of mafic and ultramafic rocks in northeast of Sefid Sang</i>	Afghanistan
17⁴⁰	18⁰⁰	Stepan Berzin (PhD)	<i>Fragments of the oceanic crust in the Revdinsky massif of the Ural platinum belt (Middle Ural, Russia)</i>	Russia

		October 17, 2018		
Venue		GGI – Hall no. 311		
Session		Information technologies in solving geological and geophysical problems		
Chairman		PhD in Earth Sciences Tofiq Rashidov (Azerbaijan)		
Co-chairman		PhD student Elif Meriç (Turkey)		
10⁰⁰	10²⁰	Anna Tseplyaeva	<i>Investigation of fracturing using seismic data for geological modeling of basement rocks</i>	Russia
10²⁰	10⁴⁰	Aytek Ersan	<i>Production of Landslide Susceptibility Map of Vezirköprü District, Samsun (North Turkey)</i>	Turkey
10⁴⁰	11⁰⁰	Nisar Ahmed	<i>Frequency-dependent p</i>	Pakistan

Information technologies in solving modern problems of Geology and Geophysics

		(PhD student)	<i>wave attenuation and dispersion to assess the low gas saturation in the upper indus basin Pakistan</i>	
11 ⁰⁰	11 ²⁰	Lili Czirik (PhD student)	<i>Analysis of tectonic and geomorphological variations using GIS</i>	Hungary
		Coffee Break		
12 ⁰⁰	12 ²⁰	Ahmed Elnazer Ahmed Abdelfattah (PhD)	<i>Landsat image enhancement integrated with SAR image for geologic studies</i>	Egypt
12 ²⁰	12 ⁴⁰	Evgeny Zvonarev	<i>Creation of the database as the foundations for studying the cork of the deposit on the fields</i>	Russia
12 ⁴⁰	13 ⁰⁰	Orkhan Najafov	<i>Studying of exogenic geological processes in the coastal zone of lake Gyrmzy by the method of electrical prospecting</i>	Azerbaijan
13 ⁰⁰	14 ²⁰	Lunch		

		October 17, 2018		
Venue		GGI – Small hall		
Sessions		Using advanced technologies in prospecting for minerals; Geological events and processes; geological risk assessment		
Chairman Co-chairman		Dr. Sc. (Geol.-min.), Academician Akper Feyzullayev (Azerbaijan) PhD Keti Benashvili (Georgia)		
10 ⁰⁰	10 ²⁰	Volodymyr Ilyenko	<i>Geoelectrical investigations in the Ukraine</i>	Ukraine
10 ²⁰	10 ⁴⁰	Ulfat Sadiyev	<i>The preliminary tidal analysis based on the CG-5 Autograv gravity measurements at Lenkaran (Azerbaijan) station</i>	Azerbaijan
10 ⁴⁰	11 ⁰⁰	Yevheniia Anpilova (PhD)	<i>Assimilation potential of geological media as basic index of enviroment tecnogenic changes</i>	Ukraine
11 ⁰⁰	11 ²⁰	Khayrulla Khamidov	<i>Observations of modern movements in the Fergana geodynamic range</i>	Uzbekistan

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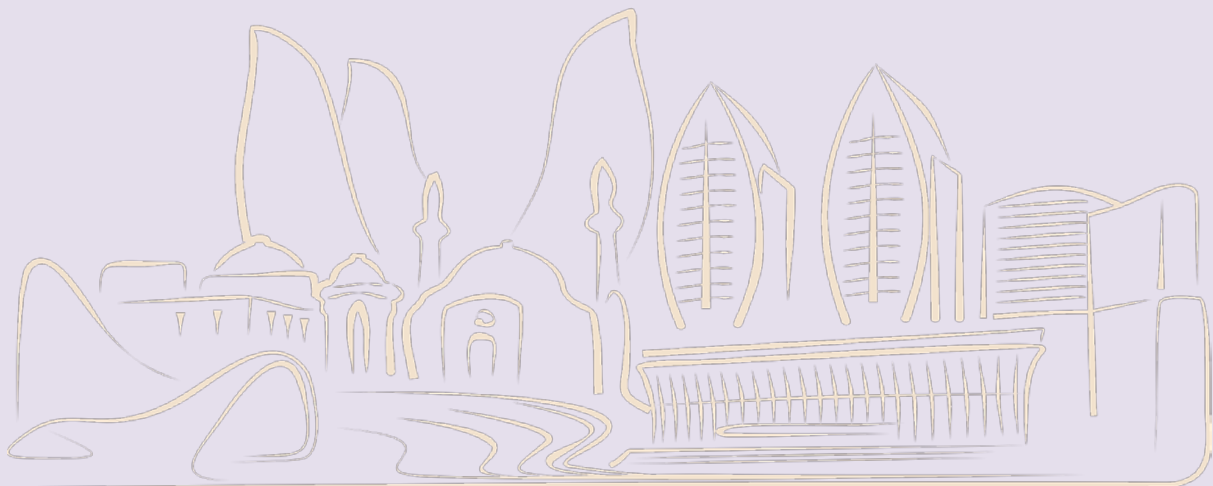
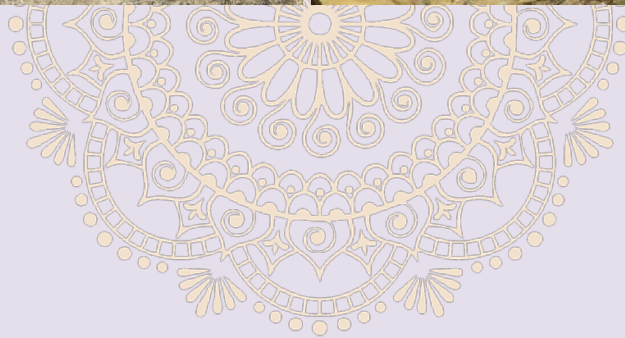
		Coffee Break		
12 ⁰⁰	12 ²⁰	Cevza Altınbaş	<i>Distribution of quaternary tectonic deformation along the coast of the Gulf of Gökova: inference from uplifted shorelines</i>	Turkey
12 ²⁰	12 ⁴⁰	Farkhod Artikov	<i>Effects of the operating regime of reservoirs on the state of local seismicity</i>	Uzbekistan
12 ⁴⁰	13 ⁰⁰	Tatyana Bobina	Risks of development of limits in corps of weathering in the processing of mineral deposit fossils by open way	Russia
13 ⁰⁰	14 ²⁰	Lunch		

		October 17, 2018
15 ⁰⁰	16 ³⁰	Poster session
		Coffee Break
17 ⁰⁰	18 ⁰⁰	Discussion of the Conference results and certificate giving ceremony

FOURTH DAY

		October 18, 2018
10 ⁰⁰		<ul style="list-style-type: none"> • Mud volcano “Dashgil” • Gobustan National Park <p>The Gobustan State Reserve located west of the settlement of Gobustan, about 40 miles southwest of the centre of Baku was established in 1966 when the region was declared as a national historical landmark of Azerbaijan in an attempt to preserve the ancient carvings, mud volcanoes and gas-stones in the region. Gobustan State Reserve is very rich in archeological monuments, the reserve has more than 6,000 rock carvings, which depict primitive people, animals, battle-pieces, ritual dances, bullfights, boats with armed oarsmen, warriors with lances in their hands, camel caravans, pictures of sun and stars, on the average dating back to 5,000-20,000 years. In 2007, the cultural landscape of rock carvings of Gobustan was included in the list of monuments of the World Cultural Heritage of UNESCO.</p>
18 ⁰⁰		Gala Night

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15-18 October, 2018

Baku, Azerbaijan