

1st International Conference on Geoenergy and the 5th National Petroleum Geomechanics Conference, February 4th to 6th, 2025, at K. N. Toosi University of Technology, (4 February)

7:30-8:15	Reception
8:15-8:30	Recitation of the Quran and the national anthem
8:30-8:45	Welcome, Dr. Hamidreza Taghirad, President of Khaje Nasir Toosi University of Technology
8:45-9:00	Speech by Mr. Hamid Bord, the Honorable Deputy Minister of Petroleum and CEO of the National Iranian Oil Company
9:00-9:10	Speech by Dr. Abdolhossein Hemmati, the Honorable Secretary of the Energy Commission of the Islamic Consultative Assembly (Parliament)
9:10-9:20	Speech by Dr. Toraj Dehghani, CEO of Pars Oil and Gas Company
9:20-9:30	Speech by Dr. Azim Kalantari, the Honorable President of the Research Institute of Petroleum Industry (RIPI)
9:30-9:40	Speech by Dr. Motahari, Director of Research and Technology at the National Iranian Oil Company
9:40-9:50	Speech by Dr. Hormoz Ghalavand, Vice Chairman of the Conference Policy Council
9:50-10:00	Speech by Dr. Hassan Ghasemzadeh, Secretary of the Conference
10:00-10:15	Break
10:15-12:15	Panel Discussion on Energy Deficit and Solutions for Increasing Production with the Participation of: Dr. Seyed Hashem Orace Mirzamani, President of the Wind Energy Association and the Iranian Energy Sciences Union - Sharif University of Dr. Alireza Fereidunian, Vice President of the Iranian Smart Grid Association - Khaje Nasir Toosi University of Technology Dr. Vali Ahmad Sajadian, Chairman of the Board of the Iranian Petroleum Association - Islamic Azad University. Dr. Majid Zandi, Chairman of the Board of the Iranian Renewable Energy Technologies Association - Shahid Beheshti University Dr. Younes Noorollahi, President of the Iranian Geothermal Association - University of Tehran Dr. Seyed Mohammad Sadeghzadeh, Former CEO of the Renewable Energy and Energy Efficiency Organization of Iran (SATBA) - Shahed University Moderator: Dr. Hassan Ghasemzadeh, President of the Iranian Petroleum Geomechanics Association - Khaje Nasir Toosi University of Technology
12:15-13:30	Time for Prayer and Lunch
13:30-14:00	Dr. Gubanov Sergey Igorevich - Director of the Institute of Oil and Gas Technologies, Russia <i>Technology of thermochemical action with a heating composition for high-viscosity oil production intensification and thermal acid treatments Annotation</i>
14:00-14:30	Professor S. ghabezloo, Laboratoire Navier, Ecole nationale des ponts et chaussées, France <i>Oil-well cements behavior for integrity assessment of CO2 injection wells</i>
14:30-15:00	Prof. Igor Vasilievich Kudinov - Head of the Physics Department, Samara State Technical University, Russia <i>Oil and gas technologies for the production of hydrogen and carbon nanomaterials: global trends and the technological level of Samara Polytechnic University</i>
15:00-15:30	Break
15:30-16:00	Professor Babitskaya Ksenia Igorevna, Institute of Oil and Gas Technologies, Samara State Technical University, Russia, <i>Improved Recovery Of High-Viscosity Oil And Limitation Of Water Production Restraining With Chemical Solutions Of Selective Operation</i>
16:00-16:30	Dr. S.A. Ghoreishian - Department of Civil and Environmental Engineering NTNU – Norwegian University of Science and Technology, Norway, <i>On the implementation of hyperplastic models without establishing a yield surface</i>
16:30-17:00	Break
17:15-19:00	Meeting of the Iranian Petroleum Geomechanics Association

1st International Conference on Geoenery and the 5th National Petroleum Geomechanics Conference, held from February 4th to 6th, 2025, at K. N. Toosi University of Technology, Amphitheater of the Faculty of Civil Engineering (5 February)

8:00-10:00	Session 1: Advances and New Technologies in the Field of Geoenery Venue: Civil Engineering Faculty Auditorium Session Chairs: Dr. Sharafi Safa – Dr. Asef – Dr. GhasemZadeh
8:00-8:20	Dr. A.A Tataurova, Samara State Technical University, Russia, Geomechanical approaches for successful development and profitability increasing of a field using multilateral open-hole wells in weakly consolidated reservoirs
8:20-8:40	Dr. Omid Ghasemi-Fare, Associate Professor, Department of Civil and Environmental Engineering, University of Louisville, USA, Role of Thermo-Plastic Deformation, Thermo-Osmotic Flow, and Thermal Infiltration on the Thermo-Hydro-Mechanical Behavior of Saturated Boom Clay
8:40-9:00	Prof. Peyman Pourafshary - Vice Dean for Research and Academic Affairs, School of Mining and Geosciences, Nazarbayev University, Kazakhstan DLVO-Based Modeling and Experimental Validation for Predicting and Controlling Fines Migration in Sandstone Reservoirs during Enhanced Oil Recovery Operations
9:00-9:12	Yousef Samiei, Mohammad Kazem Amiri, Behnam Shahsooni, Meysam Mohammadzadeh Shirazi, Faculty of Petroleum and Gas Engineering, Shiraz University Development and Validation of a Geomechanical Model in the Unconsolidated Sandstones of the Asmari Formation Using Well Log and Laboratory Data for Sand Production Prediction
9:12-9:24	Ali Ghanbari, Mohammad Sadeq Barfabour, Geotechnical Group, Kharazmi University Energy storage sand reservoirs; A new way to produce clean energy (Case study: Eshtehard region in Alborz province)
9:24-9:44	Behnam Vafajou Damirchi, University of Sydney An embedded finite element method (E-FEM) for fluid flow and coupled hydro-mechanical analysis in fractured porous media
9:44-10:00	Behnam Ghobadi, Ehsan Taheri, Seyed Ali Ghoreishian Amiri, Masleh Eftekhari, Seyed Iman Moghaddam Use of Unified Anisotropic Behavior Models for Predicting Inelastic Deformation of Geomaterials
10:00-10:15	Break
10:15-12::15	Session: Enhanced Oil Recovery and Development of Oil and Gas Fields Venue: Civil Engineering Faculty Auditorium Session Chairs: Dr. Rouhi – Dr. Amiri – Dr. Pak
10:15-10:35	Dr. Khusnutdinova Alfinur Dzhavdatovna, FSBEI of HE, Samara State Technical University, Samara, Russia Effect of solutions with nanoparticles on oil displacement in the Hele-Shaw cell
10:35-10:55	Kondratyuk Artem Alekseevich, Samara State Technical University, Russia, Substantiation of the technology of acoustic and chemical effects on the bottom-hole zone of the reservoir in order to intensify oil production and at the same time limit water flow to the well
10:55-11:07	Farshad Heidari, Bahareh Heidari, Danial Dadasheh Dezgah, University of Tehran Strategies for Development and Enhanced Recovery from the Oil and Gas Fields of the Persian Gulf
11:07-11:19	Zeinab Aliabadian, Mansour Sharafi Safa, K. N. Toosi University of Technology, University of Tehran Fluid injection efficiency in reservoirs with filled joints
11:19-11:40	Dr. Alireza Alamatsaz, PhD Petroleum Engineering In Situ Combustion Research group, University of Calgary, Calgary, Canada Is it time for In Situ Combustion for EOR in Iranian Heavy Oils
11:40-11:52	Mehrab Rashidi, Exploration Management, National Iranian Oil Company Overview and development trends of energy: Implications for unconventional hydrocarbon resources
11:52-12:04	Zahra Shahmiri, Eghbbal Sahraei, Mohammad mahdi salehi Investigating the effect of geometric parameters of hydraulic fracturing on production potential in one of Iran's petroleum carbonate reservoirs
12:04-13:30	Prayer Time and Lunch Reception

1st International Conference on Geoenery and the 5th National Petroleum Geomechanics Conference, held from February 4th to 6th, 2025, at K. N. Toosi University of Technology, meeting room(5 February)

8:00-10:00	Session: Drilling of Oil, Gas, Deep Water Wells, Geothermal Wells, and Hydrogen Storage Session Chairs: Dr. Taheri – Dr. Iranmanesh – Dr.Ghanbari
8:00-8:12	Sajad Tizabi Mashhadi, Ahmad Ramazan Zadeh, Abbas Rouhi, Mohammad Mehrad, Shahrood University of Technology – Shahrood University of Technology – Pars Oil and Gas Company Predicting The Type and Probability of Drill String Stuck in Real Time Based on Drilling Data
8:12-8:24	Mohammad Ali Chamanzad, Majid Nikkhah, Ahmad Ramazan Zadeh, Misha Pezeshki, Imandokht Mostafavi, Shahrood University of Technology Coupled Hydromechanical Analysis Model for the Effect of Drilling Mud Weight on the Wellbore stability with Anisotropic Stress Regime
8:24-8:36	Saman Karimi, Kourosh Hejazi, Togcheh Basar, K. N. Toosi University of Technology Numerical Modeling of Fluid Flow, Heat Transfer, and Mechanical Processes in a Geothermal Reservoir Using Combined Lattice Boltzmann and Discrete Element Methods
8:36-8:48	Milad Khashayi, Mohammad Simjo, Marvat Faridzad, Sahand University of Technology, Tabriz Experimental Insights into the Dynamics of Salt Precipitation During CO₂ Injection in Saline Aquifers: A Micromodel Study
8:48-9:00	Diako Ramook Khalifan, Mansour Ziai, Hamid Jafarpour, Hamid Aghaei, Masoumeh Kordi, Shahrood University of Technology Lab-based investigation on the effect of water-based mud additive, Nano silica, on cap rock wettability in contact with hydrogen gas
9:00-9:12	Shahrokh Poor Biranvand, International Institute of Seismology and Earthquake Engineering Impact of Hydrocarbon Exploitation on Seismicity Rate in Qeshm Island, Southern Iran
9:12-9:24	S. Morteza Mousavi - Vahid Amiresmaili - Shabnam Vakili Groundwater Circulation Wells and Geothermal Use: A Review
9:24-9:36	Sara Ahmadi, Saeb Akhtarkavan, Shahab Ayatollahi, Hassan Mahani Modelling of gas mixing for underground hydrogen storage in depleted gas reservoirs and its effect on hydrogen recovery and purity
9:36-10:00	question and answer
10:00-10:15	Break
10:15-12:15	Session: Geomechanical Models and Geophysical Investigations Session Chairs: Dr. Mahani – Dr. Hamidi – Dr. Jalali Far
10:15-10:27	Marjan Sadrjamali, Amir Hamidi, Kharazmi University Thermo-Hydro-Mechanical Analysis of Energy Pile Groups using a Modified Version of ABAQUS Software
10:27-10:39	Arash Barjasteh, Fariba Zahmati, Mehdi Shafidel Zadeh, Khuzestan Water and Power Authority, Dam and Power Plant epartment – National Iranian South Oil Company – National Iranian Drilling Company The role of local geologic structure on well bore stability, case study of a well in Haftkel Oilfield
10:39-10:51	Mehrdad Sadeghi, Majid Nikkhah, Mehdi Ostadhassan, Shahrood University of Technology – Shahrood University of Technology – Kiel University, Germany Multiscale geomechanical properties estimation of the shale reservoir by results of nanoindentation test
10:51-11:03	Arghavan Haghghatjou, Seyed Mohammad Abtahi Foroshani, Nader Fathianpour, Beeta Arbab, Isfahan University of Technology – Isfahan University of Technology – Isfahan University of Technology – Iranian Offshore Oil Company Estimation of Pore Pressure Using NMR Log Data and Multi-Layer Perceptron Neural Network Training in the Burgan Sandstone Reservoir, Binaloud Field
11:03-11:15	Hassan Sadr, Ali Misaghi, Ehsan Pegah, Mohammad Reza Assef, Ahmad Lakzai, Kharazmi University – Kharazmi University – National Iranian South Oil Company Evaluation of the cap rock quality of Gachsaran Formation Based on Geomechanical and rock mechanics indices
11:15-11:27	Hossein Mohammadi, Fariborz Rashidi, Mohammad Ali Riahi, University of Tehran – Amirkabir University of Technology Determination of the Suitable Depth for Hydraulic Fracturing in Field Wells
11:27-11:39	Mohsen Ezati, Mohammad Reza Ebadi, Mehdi Hazineh, Hesammuddin Kazemeini, Fahimeh Shokraneh, Foroogh Farokhnia. Pasargad Exploration and Production (E&P) Company, Petroleum Engineering and Development Company (PEDEC). Analysis of the present-day stress state in one of the oil fields of the Abadan Plain: Geomechanical modeling and recommendations for optimizing drilling and reservoir management
11:39-12:00	question and answer
12:00-13:30	Prayer Time and Lunch

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13:30-15:30	Panel Discussion Venue: Civil Engineering Faculty Auditorium
13:30-15:30	Specialized Panel Discussion by Pars Oil and Gas Company
15:30-16:00	Break
16:00-17:30	Closing Ceremony
	Group Photo

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9:00-12:00	Training Workshop: In-Situ Combustion for Enhanced Oil Recovery in Iran's Heavy Oils Venue: Civil Engineering Faculty Auditorium Instructor: Dr. Alireza Alamat-Saz
12:00-14:30	Prayer time and acceptance
14:30-16:30	Specialized Workshop on Digital Geomechanics in Oil Venue: Civil Engineering Faculty Auditorium Instructors: Dr. Ghadiri – Dr. Ghasemzadeh
	Group Photo