

I International Scientific and Practical Conference "Modern Methods of Enhanced Oil Recovery for Conventional and Unconventional Reservoirs"

Program

29.11–01.12

Skoltech

November 29

Session 1. "Modern trends of chemical EOR"

	Nº	Topic	Presenter	Position	Affiliation
9:30-9:40		Welcome speech	Alexey Cheremisin	Associate Director for Experimental Research, Professor	Skoltech
9:40-10:00	1	Screening surfactants and nanoparticles for injection in Huff-n-Puff mode into unconventional reservoirs	Alexandra Shcherbakova	Junior research scientist	Skoltech
10:00-10:20	2	Injection of surfactant solutions into the source rocks of the Bazhenov formation, theory and experimental studies	Alexandra Ushakova	Head of department	GPN Technological Partnerships

10:20-10:40	3	Methodology and experience in the selection of reagents for chemical flooding projects, an overview of the SWCTT results carried out in 2020-2021.	Igor Koltsov	Expert	GPN Technological Partnerships
10:40-11:00		Break			
11:00-11:20	4	Overview of the CEOR projects implemented within the perimeter of Gazprom Neft. Pilot project on surfactant-polymer flooding at the Kholmogorskoye field. Levers for increasing the value of CEOR projects in the Russian Federation	Anatoly Kinakh	Senior Specialist	GPN Technological Partnerships
11:20-11:40	5	Creation of an IT Platform for CEOR projects in Khanty-Mansi Autonomous Okrug-Yugra. Tools and development paths	Vladimir Krupitsky	Head of the geological modelling department	GPN Technological Partnerships / Ugra Research Institute of Information Technologies
11:40-12:00	6	Geological and technical measures planning automation as a tool of a systematic approach for the development of oil fields	Alena Chukavina	Senior Specialist	SC "VNIIneft - Western Siberia"
12:00-13:00		Lunch			
13:00-13:20	7	Technological, logistical and economic challenges in chemical EOR on the example of polymer and surfactant-polymer flooding	Vladimir Mikhailov	Polymer flooding project manager	LLC "SNF Vostok"
13:20-13:40	8	Modern methods for assessing the effectiveness of chemical EOR	Alexander Uskov	Head of the department of monitoring and planning of geological and technical measures	SIAM

13:40-14:00	9	The experience of using chemical EOR on the example of unique fields in Western Siberia, current trends and challenges	Konstantin Tagirov	Head of department	LLC "TNNTs"
14:00-14:20	10	Development of surfactant-polymer flooding technology for carbonate reservoirs with high salinity of formation water	Dmitry Kruglov	Senior Specialist	JSC "VNIIneft"
14:20-14:40	11	Experience of the implementation of a pilot project on surfactant-polymer flooding in the Perm Territory	Sergey Yurkov	Research Scientist	PermNIPneft
14:40-15:00	12	Polymer for reservoir conformance	Mohamed Ghareeb	Team Lead	SPD, Pad development
15:20-15:40		Break			
15:40-16:00	13	Selection of surfactants for conditions of high salinity of formation water for two reservoirs of carbonate type	Alexey Malakhov	Junior research scientist	Kazan Federal University
16:00-16:20	14	Development and research of new anionic-nonionic surfactants for conditions of high mineralization in carbonate reservoirs	Sergey Nazarychev	Junior research scientist	Kazan Federal University
16:20-16:40	15	Imaging micro-wettability variations of carbonates: implications for enhanced oil recovery and CO ₂ trapping/storage	Pavel Grishin	Laboratory facilities manager	Skoltech
16:40-17:00	16	Development of aging methodology for model carbonate cores with solutions of carboxylic acids	Elena Tokareva	Senior Specialist	JSC "VNIIneft"
17:00-17:20	17	Development of chemical EOR using nanotechnology and adsorption inhibitors to improve the efficiency of hydrophobic carbonate reservoirs	Anastasia Ivanova	Research Scientist	Skoltech

17:20-17:40	18	Improving Foam Bulk Stability with Nanoparticles as an Additive	Ayomikun Bello	MSc student	Skoltech
17:40-18:10		Panel discussin	All participants		

November 30

Session 3. "Modern Trends in the Ude of Gas Enhanced Oil Recovery"

	Nº	Topic	Presenter	Position	Affiliation
10:00-10:10	1	Opening speech	Moderator		
10:10-10:30	2	Synergy of gas EOR methods and waterflooding: WAG and other technologies	Viktor Telkov	Assosiate professor	Gubkin RSU
10:30-10:50	3	Applicability of WAG technology at the Tyumen formation	Pavel Tsitser	Leading spesialist	Tyumen Oil Research Center
10:50-11:10	4	Experience and development of pump-ejector systems for water-gas stimulation	Alexander Drozdov	Professor, Doctor of Engineering Science	Peoples' Friendship University of Russia
11:10-11:30		Break			
11:30-11:50	5	Gas EOR in unconventional reserves: Current state of the art, challenges and the search of feasible solutions	Desmond Dorhjie	PhD student	Skoltech
11:50-12:10	6	Hydrocarbon gas injection to organic-rich Bazhenov formation: experiment and modelling	Alexandra Ushakova	Head of department	Gazpromneft Technological partnerships
12:10-12:30	7	Selection of foaming agents and filtration studies to assess the applicability of gas EOR to low-	Emil Saifullin	Senior research scientist	Kazan Federal University

permeability fractured reservoirs with high salinity

12:30-13:30

Lunch

Session 2. "Thermal Methods of Enhanced Oil Recovery"

	Nº	Topic	Presenter	Position	Affiliation
13:30-13:50	1	Improvement of the development efficiency of high-viscous oil reservoirs using CSS technology	Natalya Lesina	Head of department	Lukoil Engineering
13:50-14:10	2	Special aspects of the materials and structures selection for high-temperature methods in oil production	Andrey Lamonov	Research scientist	Scientific and Technical Center TMK LLC
14:10-14:30	3	Improving the reliability of thermal EOR modeling due to the development and implementation of thermal petrophysics methods	Evgeny Chekhonin	Senior research scientist, Ph.D.	Skoltech
14:30-15:00		Break			
15:00-15:20	4	Influence of in-situ hydrogen synthesis processes on oil properties	Pavel Afanasiev	Junior research scientist	Skoltech
15:20-15:40	5	Thermochemical impact on oil source rocks	Konstantin Prochukhan	Enhanced Oil Recovery Technological Project Manager, Dr. of Engineering Science	GPN
15:40-16:00	6	Hot water injection: fundamental aspects of oil recovery from unconventional reservoirs	Aman Turakhanov	Engineer	Skoltech

16:00-16:20	7	Adaptation of ramped temperature oxidation test results on modeling of air injection enhanced oil recovery processes for bitumen reservoir	Lyudmila Khakimova	Junior Lecturer/ Research Scientist	University of Lausanne/ Skoltech
16:20-17:00	8	In-Situ Combustion in Vuggy Reservoir	Rita Fazlyeva	PhD student	University of Calgary
17:00-17:30		Panel discussion			

December 1

Session 4. "Modeling Methods, Challenges, and New Approaches to the Creation of Dynamic Models, including Hard-to-Recover Reserve "

	Nº	Topic	Presenter	Position	Affiliation
10:00-10:10	1	Opening speech	Alexey Cheremisin	Associate Director for Experimental Research, Professor	Skoltech
10:10-10:30	2	Modern Challenges in working with Hard-to-Recover Reserves	Elena Chukhlantseva	Senior Specialist	State Commission on Mineral Reserves
10:30-10:50	3	Evaluating the effectiveness of EOR methods using Digital Rock Analysis	Ivan Yakimchuk	Head of Research Department, Ph.D.	Schlumberger
10:50-11:10	4	Numerical simulation of the chemical interaction of fluid with rock at the pore scale	Vadim Lisitsa	Head of Laboratory, Dr.	Institute of Petroleum Geology and Geophysics RAS
11:10-11:30		Break			
11:30-11:50	5	Probabilistic estimation of the permeability of the rocks of the elementary cell of the model	Pavel Strakhov	Professor	Peoples' Friendship University of Russia

11:50-12:10	6	Simulation of polymer flooding at the Samotlor field	Dmitry Tolstolytkin	Hydrodynamic modeling expert	LLC "TNNTs"
12:10-12:30	7	Modeling Methods, Challenges, and New Approaches to the Creation of Dynamic Models, including Hard-to-Recover Reserves	Daniel Stephen Wamriew	PhD student	Skoltech
12:30-13:30	Lunch				
13:30-13:50	8	Characterization of the wettability of carbonate reservoirs according to ESEM data for the construction of complex filtration models	Igor Maryasev	Geological Research Team Leader	SMA
13:50-14:10	9	Modeling of the natural gas distribution in nanopores by molecular dynamics and density functional	Alexander Sidorenkov	High Performance Computing Engineer	Schlumberger
14:10-14:30	10	Construction of multiscale digital models of a carbonate reservoir - approaches to assessing a multi-scale void space	Alexander Burukhin	Senior Researcher, Ph.D.	Skoltech
14:30-14:50	11	Application of hydrodynamic modeling to assess the effectiveness of surfactant-polymer flooding based on the results of filtration tests	Fedor Koryakin, Denis Adakhovkij	PhD students	Tyumen State University
14:50-15:10	12	The use of indicator technologies for assessing fluid flow in a hydraulic fracture as a method for optimizing hydraulic fracturing design	Denis Kashapov	Associate Professor	Ufa State Petroleum Technological University
15:10-15:20	Break				

Session 5. "Examples of Implementation and Upscaling Improved Oil Recovery Technologies in the Fields of Russian Federation and the World"

	Nº	Topic	Presenter	Position	Affiliation
15:20-15:40	1	Laboratory study of hydraulic fracturing in low-permeability rocks	Maria Bobrova, Anna Shvetsova	PhD students	Skoltech
15:40-16:00	2	Optimizing the multistage hydraulic fracturing design based on automated mineralogy	Nikita Artemov	Expert	Skoltech

16:00-16:20	3	Multistage hydraulic fracturing in conventional and unconventional reservoirs	Dmitry Potapenko	Associate professor	Skoltech
16:20-16:40		Break			
16:40-17:00	4	Non-aqueous fracturing fluids for unconventional reservoirs	Elena Mukhina	Senior research scientist	Skoltech
17:00-17:20	5	Structuring and preliminary selection of enhanced oil recovery methods for the current reservoir conditions of the C2N (Venezuela)	Peres Ledesma /Viktor Telkov	Geologist/ Associate professor	PDVSA/ Gubkin RSU
17:20-17:40	6	SPD's EOR Journey	Mohamed Ghareeb	Team Lead	SPD
17:40-18:10		Panel discussion			