



Southwest Petroleum University
60th Anniversary
1958-2018



State Key Laboratory of
Oil and Gas Reservoir
Geology and Exploitation



Thermal
EOR

International Workshop
«Thermal Methods
for Enhanced Oil Recovery:
Laboratory Testing, Simulation
and Oilfields Applications»

Chengdu, 15-18 Oct. 2018

第三届国际稠油热采研讨会

第 3 号通知

稠油资源占世界油气储量 70%以上，经济高效开采对保障石油供给具有重要现实意义。在当前低油价环境下，如何降低稠油开采成本、节能增效与绿色环保已成为稠油热采的重要主题。为促进稠油热采技术国际间的学术交流和推动稠油开采科技进步，由西南石油大学油气藏地质及开发工程国家重点实验室和俄罗斯喀山联邦大学联合举办“第三届国际稠油热采研讨会”，将于 2018 年 10 月 15 日至 10 月 18 日在中国成都召开。来自中国、俄罗斯、美国、加拿大、法国、德国、丹麦、土耳其、伊拉克等国家的高等院校、科研机构及能源企业 500 余名代表参会，研讨会以“基础理论、模拟方法和现场应用”为主题，共同推动稠油热采技术发展。欢迎大家踊跃报名参加。

一、会议时间安排

1、时间：2018 年 10 月 15 日-18 日，10 月 14 日全天在石油缘宾馆一楼大厅（四川省成都市新都区新都大道 8 号西南石油大学）和新都假日酒店（四川省成都市新都区马超东路 280 号）报到。

2、会议安排：

10 月 15 日：技术培训、参加国家重点实验室

10 月 16 日-17 日：开幕式、大会特邀报告和主题报告

10 月 17 日晚 19:30-22:00：新疆油田稠油热采开发理论与实践国际研讨会（地点：国重 B401 会议室）

10月18日：分会场报告

二、主办单位和协办单位

主办单位：西南石油大学

油气藏地质及开发工程国家重点实验室

俄罗斯喀山联邦大学

协办单位：中国石油辽河油田分公司

中国石油新疆油田分公司

辽河油田-西南石油大学国家能源中心西南分中心

西南石油大学-新疆油田分公司提高采收率工程联合实验室

三、会议主题

- 蒸汽吞吐
- 蒸汽驱/蒸汽复合驱
- 蒸汽辅助重力泄油
- 超临界水蒸气热力采油技术
- 火烧油层
- 高压注空气
- 稠油改质
- 太阳能在稠油开发中的应用
- 电磁加热技术
- 热力采油新型注入设备研发
- 热力采油数值模拟方法及方案优化设计
- 热力采油经济评价方法
- 低渗透油藏高压注空气提高采收率
- 热采技术与生态环境
- 热力采油经济评价方法
- 现场试验和开发实例分析

四、学术委员会

主 席：赵金洲	西南石油大学校长
副 主 席：周守为	院士/中国科协副主席/国家重点实验室主任
Danis Nurgaliev	Vice-President of Kazan Federal University
张烈辉	西南石油大学副校长
Mustafa Versan Kok	President of Middle East Technical University

国际委员：

Pedro Pereira Almao	University of Calgary, Canada
Marat Amerkhanov	Tatneft Oil Company, Russia
Dmitry Antoniadi	Institute of Oil, Gas and Energetics, Kuban State Technological University, Russia
John Belgrave	Belgrave Oil & Gas Corp., Calgary, Canada
Alexey Cheremisin	Skolkovo Institute of Science and Technology, Russia
Claude Gadelle	Xytel, USA
Malcolm Greaves	University of Bath, UK
Berna Hascakir	Texas A&M University, USA
Qi Jiang	SKL, Southwest Petroleum University, China
Viatcheslav Kafarov	Industrial University of Santander, Colombia
Genbao Qian	Xinjiang Oilfield Company, China
Anthony Kovscek	Stanford University, USA
Sudarshan Mehta	University of Calgary, Canada
Gordon Moore	University of Calgary, Canada
Wanfen Pu	SKL, Southwest Petroleum University, China
Vural Sander Suicmez	Editor-in-Chief, Journal of Petroleum Science and Engineering, Denmark
Hongzhuang Wang	RIPED, China
Alex Turta	A T EOR Consulting Inc., Canada

Zhangxing Chen University of Calgary, Canada

Fanhua Zeng University of Regina, Canada

Qicheng Liu Liaohe Oilfield Company

五、组织委员会

主 席：张烈辉	西南石油大学副校长
委 员：郭 肖	油气藏地质及开发工程国家重点实验室副主任
Ildus Chukmarov	俄罗斯喀山联邦大学地质与石油技术学院副院长
李晓平	西南石油大学石油与天然气工程学院院长
杨兆中	西南石油大学科研处处长
戴 磊	西南石油大学国际合作与交流处副处长
李早元	西南石油大学研究生院副院长
蒲 勇	西南石油大学学生工作部（研究生工作部）部长
蒲冠州	西南石油大学党办校办副主任
Vladislav Sudakov	俄罗斯喀山联邦大学地质与石油技术学院副院长
Valentina Starshinova	俄罗斯喀山联邦大学全球能源与资源研究中心
卞小强	西南石油大学石油与天然气工程学院副院长
秘书长：Mikhail Varfolommev	俄罗斯喀山联邦大学全球能源与资源研究中心主任
魏 兵	油气藏地质及开发工程国家重点实验室

六、会议注册

1. 会议注册费为每人 3000 元（学生 1000 元），包括工作餐、培训费、论文印刷费和资料费等，现场缴费并开具发票，住宿和交通费自理。请提前准备好发票抬头、纳税人识别号、发票明细（会议费）、发票类型（增值税普通发票）。

2. 会议注册请访问：<http://sklworkshop.swpu.edu.cn>，或现场注册。

3. 现场注册地点为石油缘宾馆一楼大厅（四川省成都市新都区新都大道 8 号西南石油大学）和新都假日酒店（四川省成都市新都区马超东路 280 号）。

七、会议论文

1. 会议提供纸质英文摘要集；
2. 优秀论文全文经委员会推荐至期刊 Journal of Petroleum Science and Engineering, Advances in Geo-Energy Research (AGER)和 Petroleum。

八、会务组联系

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Day 1, October 15th, 2018, Monday

Training Courses

Academic Hall A403 of Skate Key Laboratory, Southwest Petroleum University

Instructor: Prof. Alex Turta, AT EOR Consulting Inc., Canada

Time	Content
09:00-10:30	Long-distance and short-distance oil displacement methods and THAI Process and its upgrading potential
10:30-10:45	Break
10:45-12:15	Stream drive in toe-to-heel configuration; improvement by adding solvent
12:15-13:30	Lunch
13:30-15:00	Toe-to-Hell waterflooding and results of limited field testing
15:00-15:15	Break
15:15-16:45	Merits and Limits of gravity-stable, TTH oil displacement methods and further possible developments.
16:45-18:00	Skate Key Laboratory visit

Day 2, October 16th, 2018, Tuesday (Morning)

Opening Ceremony

President: Jinzhou Zhao

Library Academic Hall, Southwest Petroleum University

08:30-08:50	Welcoming Speech
	Taking pictures

Plenary Lectures

Chairs: Liehui Zhang, ErlingStenby

Library Academic Hall, Southwest Petroleum University

Time	Lecturer	Institution	Title
08:50-09:30	Qi Jiang	Southwest Petroleum University	Improve Efficiency for Thermal Heavy Oil-Recovery Opportunities and Challenges
09:30-10:10	Ian D. Gates	University of Calgary, Canada	Design of Thermal Recovery Processes Minimizing Emissions and Maximizing Energy Efficiency
10:10-10:30	Coffee Break		

Key-note Lectures

Chairs: Danis Nurgaliev, Pedro Pereira Almao

Library Academic Hall, Southwest Petroleum University

Time	Lecturer	Institution	Title
10:30-11:00	Qiang Song	Tsinghua University, China	Coke Formation during Thermal Conversion of Heavy Oil
11:00-11:30	Alex Turta	A T EOR Consulting Inc., Canada	Field Testing of the THAI Process: Current Status
11:30-12:00	Mustafa Versan Kok	Middle East Technical University, Turkey	Low Temperature Oxidation of Heavy Crude Oils
12:00-13:00	Lunch		

Day 2, October 16th, 2018, Tuesday (Afternoon)

Plenary Lectures

Chairman: Ian D. Gates, Birol Dindoruk

Library Academic Hall, Southwest Petroleum University

Time	Lecturer	Institution	Title
13:30-14:10	Hongzhuang Wang	Research Institute of Petroleum Exploration and Development, China	Development progress of heavy oil resources in China
14:10-14:50	Vural Sander Suicmez	Maersk Oil and Gas AS, Denmark	EOR: Past, Present and Future
14:50-15:10	Coffee Break		

Key-note Lectures

Chairman: Tayfun Babadagli, Fanhua Zeng

Library Academic Hall, Southwest Petroleum University

Time	Lecturer	Institution	Title
15:10-15:40	Claude Gadelle	Xytel Inc., USA	How to improve efficiency of thermal methods for oil recovery?
15:40-16:10	Pedro Pereira Almao	University of Calgary, Canada	Experimental in Core Evidences and numerical simulation of Nano-Catalysts Dispersion and Hot Fluids Penetration Within Narrow Pores at conditions of In Situ Upgrading for Oil Sands and Carbonate Reservoirs
16:10-16:40	Sudarshan Mehta Robert Gordon Moore	University of Calgary, Canada	Keys to the Design and Field Implementation of Successful Air Injection-Based EOR Processes for Heavy-and Light-Oil Reservoirs
16:40-17:00	Coffee Break		
17:00-17:30	Mikhail Varfolomeev Danis Nurgaliev	Kazan Federal University, Russia	Catalytic In-situ Oil Upgrading for Heavy Oil Recovery: Advantages and Problems
17:30-18:00	Wanfen Pu	Southwest Petroleum University, China	Study on Oxidation Behavior of Oil

Day 3, October 17th, 2018, Wednesday

Plenary Lectures

Chairman: Hongzhuang Wang, Vural Sander Suicmez
Library Academic Hall, Southwest Petroleum University

Time	Lecturer	Institution	Title
08:30-09:10	Birol Dindoruk	Shell International E&P, USA	Properties of Heavy Hydrocarbons/Oils & What You Need to Know for Recovery Processes
09:10-09:50	Erling Stenby	Technical University of Denmark, Denmark	Compositional Modeling for Thermal EOR Simulation
09:50-10:10	Coffee Break		

Poster Session

Outside Library Academic Hall, Southwest Petroleum University
Time: 10:10-12:00

No.	Lecturer	Institution	Title
01	Gong Ruxiang, Sun Yongtao	China Oilfield Services Ltd. , China	Research and application of multi-component thermal fluid huff and puff thermosensitive reversible gel composite foam anti channeling technology
02	Raikhan R. Soldatova, Sergey M. Petrov, Natalia Yu. Bashkirceva, Anastasia A. Nosova, Zuhra R. Nasyr	Russia	Aquathermolysis of heavy oil in the presence of Supercritical water
03	Seyedsaeed Mehrabi Kalajahi; Mikhail A. Varfolomeev	Kazan Federal University, Russia	Study of bimetallic oil soluble catalyst effect on heavy crude oil oxidation process in enhancing oil recovery
04	Rojas A.; Idrisov I.; Sudakov V.	Kazan Federal University, Russia	An estimation of Ufimian terrigenous reservoir lithology influence on oil recovery factor by steam stimulation basing on reactor pipe lab experiments
05	Shengfei Zhang ¹ ; Ruifeng Jin; Xiuluan Li; Hongzhuang Wang; Xinge Sun	RIPED, PetroChina; Research Institute of Xinjiang oil field exploration and development, China	Experimental Study On The Process of eMSAGP and Its Potential Application In Super Heavy Oil Reservoir

06	Kamil Sadikov, Mikhail A. Varfolomeev, Chengdong Yuan	Kazan Federal University, Russia	A New, Fast, and Efficient Method for Evaluating the Influence of Catalysts on In-Situ Combustion Process for Heavy Oil Recovery
07	Rail Kadyrov, Aleksander Starovoytov, Edward Utemov, Victor Kosarev, Vladislav Sudakov	Kazan Federal University, Russia	Wavelet analysis of X-ray computed tomography data for multiphase segmentation of heavy oil saturated reservoirs
08	Kamil Sadikov, Chengdong Yuan, Mikhail A. Varfolomeev	Kazan Federal University, Russia	New method for monitoring the thermal effect of crude oil oxidation/combustion in porous media under dynamic air flow condition
09	R.R. Khasanov, M.A. Varfolomeev, D.A. Emel'yanov; A.I. Rakhimzyanov	Kazan Federal University, Russia	The application of thermal methods for the extraction of the coalbed methane (on the example of the Volga-Ural oil and gas province, Russian Federation)
10	V.Y. Volkov, , A.V. Vakhin, Y.V. Onishchenko	Kazan Federal University, Russia	A new Low Field NMR advancement to full shale analysis including solid fractions
11	Sergey A. Sitnov, Emil R. Bajgildin	Kazan (Volga region) Federal University, Russia	Underground conversion of heavy oil in the presence of cobalt and iron tallates based catalyst
12	A.V. Vakhin, , F. A. Aliev, S.A. Sitnov	Kazan Federal University, Russia	Catalytic aquathermolysis of Boca De Jaruco heavy oil in the presence of nickel, cobalt, iron and copper tallates
13	Sergey A. Sitnov, Irek I. Mukhamatdinov	Kazan (Volga region) Federal University, Russia	Catalytic aquathermolysis of high-viscosity oil with nanosized mixed iron oxide
14	Marat Gafurov, Indad Sh. S. Salih, George Mamin	Kazan Federal University, Russia	Conventional and high-field EPR for studying supramolecular vanadyl complexes in crude oil
15	Yu Zhiming, Zeng Dezhi,	Southwest Petroleum University, China	Study on CO ₂ corrosion behavior of super 13Cr steel in high temperature steam environment
16	I. Sh. S. Salih, I.I. Mukhamatdinov E.I. Garifu	Kazan Federal University, Russia	Studying complex structural units of asphaltenes subfractions by means of electron paramagnetic resonance
17	Li Jun, Lai Nanjun	Southwest Petroleum University, China	Flow property of wax contained heavy oil
18	Wang Dongdong, Lai Nanjun	Southwest Petroleum University, China	Development and application of polymeric surfactant emulsification and viscosity reduction system

19	Guoqing Feng	Southwest Petroleum University, China	A comprehensive method for determining the viscosity threshold of heavy oil in water flooding development
20	Jun Li; Nanjun Lai	Southwest Petroleum University, China	Study on The Prediction of The Wellbore Blockage of Waxy Heavy Oil
21	Hao Gao; Wanfen Pu	Southwest Petroleum University, China	Experimental investigation on enhanced heavy oil recovery by using carbon dioxide and urea assisted steam techniques
22	Wanfen Pu; Zhezhi Liu	Southwest Petroleum University, China	Experimental Study of air injection in heavy oil reservoir for enhanced oil recovery
23	Yafei Chen; Wanfen Pu; Xiaolong Gong	Southwest Petroleum University, China	The oxidation mechanism and in-situ combustion feasibility analyses of Tahe ultra-heavy oil in cave-fractured carbonate reservoir
24	Zupeng Liu	Shengli Oilfield, China	Research Development of Heavy Oil Thermal Recovery Technology in Shengli Oilfield
25	Xiaodong Han	CNOOC Ltd, Tianjin, China	Research and Application of the Optical Fiber Technology for Real-time Temperature Test of Offshore Thermal Wells Branch
26	Liana Kovaleva; Rasul Zinnatullin	Bashkir state university, Russia	Investigation of electromagnetic impact on shale rock
27	Lin Tao; Sun Yongtao; Liu Haitao	China Oilfield Services Limited, China	Simulation of multi-component thermal fluid flooding in horizontal well of offshore heavy oil reservoirs
28	Jingyi Wang; Ian Gates	University of Calgary, Canada	In situ gasification for H ₂ production from laboratory to field
29	Konesev S.G., Khlyupin P.A.	Ufa State Petroleum Technological University, Ufa	Ways to improve the efficiency of heat exposure electrothermal installations
30	Muneer A. Suwaid, Ameen A. Almntaser, Mikhail A. Varfolomeev, Chengdong Yuan,	Kazan Federal University, Russia	Catalytic aquathermolysis of heavy crude oil using transition metal-based catalysts
31	Mukhametgaliev Ilmir, Ismakov Rustem	Ufa State Petroleum Technological University, Ufa	Directional drilling simulator for fields with hard-to-recover hydrocarbon reserves
32	Lijuan Chen	Engineering Technology Research Institute Of Xinjiang Oilfield Company, China	Different materials in the simulated fire flooding production condition to research the regular of corrosion

33	Zuguo Yang; Haiyang Zhao; Jao Baolei; Cao Chang	Research Institute of Engineering Technology, China	Reaction behavior and coke formation inhibition for Tahe heavy oil visbreaking modification
34	V. L. Starshinova; Ya. I. I. Abdelsalam; V. E. Gorelysheva; A.V. Oparkin; S. G. Gnevashev; A.V. Pyataev; R.F. Khamidullin; E.A. Karalin; A.A. Shinkarev	Kazan Federal University; Kazan National Research Technological University, Russia	Heterogenous catalysts based on Fe-pillared structures for catalytic aquathermolysis processes
35	Delev Alexey; Sidorov Sergey	Kazan federal university, Russia	Construction of geological model of a shallow super-viscous oil deposit based on core analyses and geophysical monitoring data
12:00-13:30	Lunch		
Key-note Lectures			
Chairman: Sudarshan Mehta, Mustafa VersanKok			
Library Academic Hall, Southwest Petroleum University			
Time	Lecturer	Institution	Title
13:30-14:00	Jingjun Pan	Research Institute of Engineering Technology of Xinjiang Oilfield, China	Pilot Test of In-situ Combustion after Steam Flooding in Heavy Oil Reservoir
14:00-14:30	Fanhua Zeng	University of Regina, Canada	How solvent and heat can work together in heavy oil recovery?
14:30-15:00	Alexey Cheremisin	Skolkovo Institute of Science and Technology, Russia	Thermochemical Enhanced Oil Recovery Methods for Unconventional Reservoirs
15:00-15:20	Coffee Break		
15:20-15:50	Tayfun Babadagli	University of Alberta, Canada	Myths and Facts about EOR and Getting Ready for New Challenges Ahead of Us
15:50-16:20	Jorge Ancheyta	Mexican Institute of Petroleum	Upgrading of Heavy and Extra-Heavy Petroleum by Moderate Hydrotreating
16:20-16:50	Wenlong Guan	PetroChina, China	Field control technologies of combustion assisted gravity drainage (CAGD)
16:50-17:20	Alternate		
17:20-17:50	Alternate		

Day 4, October 18th, 2018, Thursday

Session 1: Air Injection Technologies

Chairs: Mikhail Varfolomeev, Bing Wei; Alexey Cheremisin, Qiang Song

Academic Hall A403 of Skate Key Laboratory, Southwest Petroleum University

Time: 08.30-18.00

No.	Time	Authors	Institution	Title
01	08:30-08:50	I.S. Afanasiev; G.D. Fedorchenko; E.V. Lubnina S.S. Urazov	JSC Zarubezhneft, Moscow, Russia	A new chemical model for LTO: from developing to pilot test result adjusting
02	08:50-09:10	Lyudmila Khakimova; Tatiana Bondarenko; Alexey Cheremisin; Artem Myasnikov; Alexey Solovyev; Yaroslav Simakov; Elena Lubnina	Skolkovo Institute of Science and Technology, Moscow, Russia	Adaptation of high-pressure ramped temperature oxidation experiment for modelling of high-pressure air injection in carbonate reservoirs
03	09:10-09:30	Wei Wei; Jingyi Wang; Setayesh Afshordi	University of Calgary, Canada	An Analysis of THAI at the Kerrobert Operation in Saskatchewan
04	09:30-09:50	Dong Liu; Lijuan Chen; Jianjun Liang	Tsinghua University; Xinjiang Oilfield Company, China	Coking model of heavy oil pyrolysis and oxidation based on SARA fractions
05	09:50-10:10	Chengdong Yuan	Kazan Federal University, Russia	Deep insight into the oxidation mechanism of crude oils using HP-DSC, TG-FITR, EPR and NMR techniques
	10:10-10:30	Coffee Break		
06	10:30-10:50	Peng Zou; Bing Wei; Runnan Wu	Southwest Petroleum University, China	Determination of the Interactions between SARA Fractions of Tahe Heavy Crude Oil during Combustion using TG/DSC Methods
07	10:50-11:10	Haiyan Jiang; Kun Du; Shibao Yuan; Zongxiao Ren	Xi'an shiyou University, China	Effect of Phase Behavior Change on In-situ Combustion
08	11:10-11:30	Qiang Ma; Rlyi Lin; Chong Zhai	China University of Petroleum, China	Experimental study on dynamics and kinetics of heavy oil in fire flooding

09	11:30-11:50	Shuyong Hu; Xinrui Hu; Lang He	Southwest Petroleum University, China	In-situ combustion technology of heavy oil: review and prospects
10	11:50-12:10	Siyuan Huang; James J. Sheng	Southwest Petroleum University, China; Texas Tech University, USA	Investigating spontaneous ignition feasibility during air injection enhanced oil recovery process using Frank-Kamenetskii theory
11	12:10-12:30	Shuai Zhao; Wanfen Pu	Southwest Petroleum University, China	Low-temperature oxidation of heavy crude oil characterized by TG, NMR and EPR techniques typical function groups estimation and temperature subinterval division
	12:30-13:30	Lunch		
12	13:30-13:50	Qiu Li; Leihao Yi; Junshi Tang; Wenlong Guan; Youwei Jiang; Haoran Zheng; Jiuning Zhou; Xiaochu Wang	PetroChina, China	Mechanisms and influencing factors of the oil bank in fire flooding
13	13:50-14:10	Hu Jia; Li-hui Deng; Liwei Zhang	Southwest Petroleum University, China	Numerical modelling on air injection EOR based on non-equilibrium theory
14	14:10-14:30	Danis Nurgaliev; Dilyara Kuzina; Damir Khassanov; Pavel Yassonov; Mikhail Varfolomeev; Vladimir Morozov; Eduard Korolev; Andrei Galukhin; Chengdong Yuan; Wanfen Pu	Kazan Federal University, Kazan, Russia	Reservoir rocks magnetic properties changes during in-situ combustion (ISC): case study from Xinjiang oilfield
15	14:30-14:50	Ushakova Alexandra; WanFen Pu	Southwest Petroleum University, China	Some approaches to the crude oil ignition investigation
16	14:50-15:10	Yibo Li; Cheng Luo; Yaqian Zhang	Southwest Petroleum University, China	The coke deposition phenomenon of heavy oil in the in-situ combustion process
17	15:10-15:30	Yafei Chen; Wanfen Pu; Xiaolong Gong	Southwest Petroleum University, China	The oxidation mechanism and in-situ combustion feasibility analyses of Tahe ultra-heavy oil in cave-fractured carbonate reservoir
	15:30-15:50	Coffee Break		
18	15:50-16:10	Xiao-dong Tang; Jing-jing Li; Tun Dang	Southwest Petroleum University, China	The research on air injection technique for heavy oil recovery enhancement

19	16:10-16:30	Mustafa Abaas; Chengdong Yuan	Kazan Federal University, Russia	The Effect of Different Rock Minerals on the Oxidation Behavior and Kinetics of Crude Oil by TG-FTIR method
20	16:30-16:50	Jing-jing Li; Tun Dang; Xiaodong Tang	Southwest Petroleum University, China	Enhance Oil Recovery for Air-assisted Steam Flooding: The Effect of Oxidative Viscosity Increasing and Profile Control
21	16:50-17:10	Tao Lin; Yongtao Sun; Haitao Liu	China Oilfield Services Limited, China	Application of High Temperature and High Pressure Physical Simulation Experiment Technology in Heavy Oil Recovery
22	17:10-17:30	M. Spasennykh; A. Voropayev; T. Bondarenko; E. Popov; A. Cheremisin; S.A. Mehta	Skolkovotech, Russia	Light Isotope Variations in Thermal EOR Processes (In Situ Combustion and Steam Injection, Pyrolysis): Results of Laboratory Experiments
23	17:30-17:50	Aliya Mukhametdinova; Tatiana Bondarenko; Evgeny Popov; Alexey Cheremisin; Viktor Nachev	Skolkovotech, Russia	Investigation of the porous structure of unconventional core during high-pressure air and supercritical water injection
24	17:50-18:10	Nikitina E.A.; Kuzmichev A.N.; Tolokonsky S.I.	VNIIneft, Moscow, Russia	Experimental definition for the kinetics of the thermal exposure on carbonate reservoirs

Day 4, October 18th, 2018, Thursday

Session 2: Steam Injection Technologies

Chairs: Youwei Jiang, Pedro Pereira Almao; Junshi Tang, Jorge Ancheyta

Academic Hall B401 of Skate Key Laboratory, Southwest Petroleum University

Time: 08.30-18.00

No.	Time	Authors	Institution	Title
01	08:30-08:50	A.A. Al-Muntaser; M. A. Varfolomeev; M.A. Suwaid	Kazan Federal University, Russia	Hydrothermal upgrading of heavy oil in the presence of water depending on its phase state at 200 – 400°C
02	08:50-09.10	Raikhan R. Soldatova; Sergey M.Petrov; Natalia Yu.Bashkirceva; Anastasia A. Nosova	Kazan National Research Technological University, Russia	Comparison of reaction media of aquathermolysis: water in different physical states
03	09:10-09:30	Sudakov V.; Stepanov A.; Khasanov D.	Kazan Federal University, Russia	Complex Geophysical-Geochemical Monitoring Technology for Shallow Heavy Viscous Oil Deposits Development by Steam Injection Methods
04	09:30-09:50	Wei Li; Guanghuan Wu	Shengli Oilfield, China	Enhancing heavy oil recovery mechanism and application of Foam-assisted steam flooding
05	09:50-10:10	Yi Su; Jingyi Wang; Ian Gates	University of Calgary, Canada	ES-SAGD versus Warm Solvent in point bars Solvent hold-up and Performance
	10:10-10:30	Coffee Break		
06	10:30-10:50	Xinfeng Jia; Riyi Lin; Jiawei Li; Jiaming Liu; and Zhangxin Chen	College of Petroleum Engineering, China	Transient Convective Heat Transfer in a Steam-Assisted Gravity Drainage (SAGD) Process
07	10:50-11:10	Shengfei Zhang; Xia Zhang; Zhongyi Zhang; Xiuluan Li; Hongzhuang Wang; Xinge Sun	RIPED, PetroChina, China	Experimental Study On The Flooding-Draining Nexus Process and Its Application In Post CSS Reservoir
08	11:10-11:30	Guangyue Liang; Shangqi Liu; Yang Liu; Yanyan Luo; Bin Han; Jixin Huang	Research Institute of PetroChina, China	Feasibility, Application and Evaluation of Geomechanical Dilatation by Polymer Injection Technology to Improve SAGD Process
09	11:30-11:50	Shengfei Zhang; Xiuluan Li; Hongzhuang Wang	RIPED, PetroChina, China	Fundamental Study On The Role of NCG In SAGD Process

10	11:50-12:10	Wei Zhang	CNOOC Ltd, Tianjin Branch, China	High Temperature Downhole Safety Control Technology Study and Practice for Offshore Heavy Oil Steam Huff & Puff Well
11	12:10-12:30	Kejun Wang	Exploration and Development Research Institute, SLOF, Sinopec, China	Low cost development technology for compound huff and puff of Shengli heavy oil reservoir
	12:30-13:30	Lunch		
12	13:30-13:50	Songlin Dan	Research Institute of Petroleum Exploration & Development, PetroChina, China	Predicting the Effects of Lean Zones on SAGD Recovery Performance Based on BP Neural Network
13	13:50-14:10	Hongyu Wang	CNOOC Ltd, Tianjin, China	Realization and Evaluation of Cyclic Steam Stimulation Pilot for Offshore Oilfield, China
14	14:10-14:30	Xiao Fan	Dongying Petroleum Development Company, Ruifeng Technical Company, China	Research and Application of Multi-thermal Fluid Assisted Steam Stimulation Technology
15	14:30-14:50	Hua Zhang	CNOOC Ltd, Tianjin Branch, China	Research of High efficient Steam Injection Technology for Medium-deep-depth Heavy oilfield in Bohai Oilfield
16	14:50-15:10	Xinge Sun; Li Ting; Ding Chao	Xinjiang Oilfield Company, China	Research on FAST-SAGD Development Technology in Fengcheng Oilfield
17	15:10-15:30	Yong Huang; Sen Chen; Hongjuan You; Dengya Chen; Chang Li	Engineering Technology Research Institute, PetroChina Xinjiang Oilfield Company, China	Research on IPR simulation and parameter optimization of tail pipe in SAGD horizontal well
	15:30-15:50	Coffee Break		
18	15:50-16:10	Xinge Sun; Genbao Qian; Chihui Luo	PetroChina Xinjiang Oilfield Company, China	Research on Multi-branch SAGD Development Technology

19	16:10-16:30	Bin Guo; Zeyu Wang	University of Petroleum, China University of Petroleum, China	Study on the influence of pressure on the steam quality
20	16:30-16:50	Leiting Shi; Shijie Zhu; Shikai Wang	Southwest Petroleum University, China	Study the factors affecting high injection pressure during steam huff and puff process
21	16:50-17:10	Bo Deng; Wei Liu; Hongbing Zhao; Yanan Song; Yanwei Liu	Tincy Group Energy Co., Ltd, China University of Petroleum (East of China), China	The World's First Large-scale Steam Huff and Puff Successfully Implemented In Deep and Heavy Oil Reservoir Offshore
22	17:10-17:30	Ning Qi; Xinghua Ren	China university of petroleum (East China), China	Preparation of Polyacrylonitrile Modified Alkali Lignin Authigenic Expandable Foam Gel and Its Mechanism of Mobility Ratio Regulation in Steam Injection Wells
23	17:30-17:50	Zuhra R. Nasyrova; Abdullo H. Aliev; Raikhan R. Soldatova; Sergey M. Petrov	Kazan National Research Technological University, Russia	Aquathermolysis of heavy oil in the presence of minerals of carbonate rock

Day 4, October 18th, 2018, Thursday

Session 3: Heavy Oil Recovery, Complex, Hybrid and Advanced Technologies and Methods in Thermal EOR

Chairs: Yibo Li, Mustafa VersanKok; Fanhua Zeng, Alex Turta

Academic Hall B402 of Skate Key Laboratory, Southwest Petroleum University

Time: 08.30-18.00

No.	Time	Authors	Institution	Title
01	08:30-08:50	Jun Li; Nanjun Lai	Southwest Petroleum University, China	Flow property of wax contained heavy oil
02	08:50-09:10	Zhaozhong Yang; Jingyi Zhu; Xiaogang Li	Southwest Petroleum University, China	Applications of Microwave Heating Technology in Heavy Oil and Bitumen Resources In-situ Upgrading and Recovery Enhancement
03	09:10-09:30	Hao Liu	CNOOC Ltd, Tianjin Branch, China	Case Study Research on Enhancing Efficiency Technology in Mid-to-Late Periods of Thermal Stimulation for Offshore Heavy Oil Field
04	09:30-09:50	Guanghuan Wu	Shengli Oilfield Company, China	Direction of effective replacement technologies for heavy oil reservoir development in Shengli Oilfield
05	09:50-10:10	Wenjun Ao; Bin Chen; Liang Kan; Chengsheng Wang; Zhao Renbao	CNOOC Enertech-Drilling & Production Co., China	Effect of CO ₂ on Physical Properties of Heavy Oil and Dissolution and Diffusion Behavior of CO ₂ in Heavy Oil
	10:10-10:30	Coffee Break		
06	10:30-10:50	Ruonan Zheng; Jingjun Pan; Lijuan Chen	Tsinghua University; Xinjiang Oilfield Company, China	Effects of main clay minerals on the thermal conversion characteristics of heavy oils
07	10:50-11:10	Oleg Morozyuk	Lukoil Engineering Ltd, Russia	Experimental studies of the technology of extracting super-viscous oil from a carbonate reservoir using CO ₂
08	11:10-11:30	Shibao Yuan; Zongxiao Ren; Yu Bai; Haiyan Jiang; Dongsheng Li	Xi'an Shiyou University, China	The Study on the Mechanism of H ₂ S Production during Thermal Recovery of Heavy Oil
09	11:30-11:50	Ran Luo; Jingyi Wang; Ian Gates	University of Calgary, Canada	Mechanisms of flue gas EOR in heavy oil/oil sands systems
10	11:50-12:10	Zupeng Liu	Research Institute of Exploration and	Numerical simulation of water cut control and oil production stabilization on super-heavy oil reservoir with bottom and edge water

			Development, Shengli Oilfield Company, SINOPEC, China	
11	12:10-12:30	Andrei Tiutiaev; Irina Dolzhikova; Andrei Dolzhikov; Mamed Salgiraev	Samara State technical University, Russia	Optimization of temperature regimes of well electric heating with asphaltene, resin, wax depositions and high-viscosity oil
	12:30-13:30	Lunch		
12	13:30-13:50	Durkin Sergey; Menshikova Irina	Ukhta State Technical University	Problems and ways to solve the development of heavy oil fields with complex geological conditions
13	13:50-14:10	Yigang Liu; Qiuxia Wang	CNOOC Ltd, Tianjin Branch, China	Research and Practice of Heavy Oil Thermal Recovery Technology in Bohai Oilfield
14	14:10-14:30	Zupeng Liu	Shengli Oilfield Company, SINOPEC, China	Research on the Cyclic CO ₂ Injection Technology for Ordinary Heavy Oil Reservoir
15	14:30-14:50	Qiang Ma; Riyi Lin	China University of Petroleum, China	Study on the Formation Mechanism of H ₂ S by Thermochemical Sulfate Reduction During Heavy Oil Thermal Recovery
16	14:50-15:10	Victor Kireev; Liana Kovaleva; Rasul Zinnatullin; Ruslan Sultanguzhin	Bashkir State University, Ufa	A Comparative Study of Radio-Frequency and Conventional Electric Heating of Bottom Hole Zone
17	15:10-16:30	V.B. Zavolzhsky; V.V. Zatcepin; Yu.A. Gankin; R.A. Idiyatullin	Terratec, Moscow, Russia	Thermogas chemical treatment of well bottom hole zone by water solutions of binary mixes
	16:30-16:50	Coffee Break		
18	16:50-17:10	Tatiana Bondarenko; Alexey Cheremisin; Sergei Antonov; Alexander Mishin; Evgeny Popov; Mikhail Spase	Skolkovotech, Russia	Evaluation of supercritical water injection potential for in-situ synthetic oil generation from oil shale: Bazhenov Formation
19	17:10-17:30	E.V. Yudin; A.A. Lubnin; E.V. Lubnina	JSC Zarubezhneft, Moscow, Russia	New engineering software for screening, ranking and efficiency estimation of thermal EOR methods
20	17:30-17:50	Diego Sandoval; Erling H. Stenby; Wei Yan	Technical University of Denmark, Denmark	Gas Injection Modeling in Shale

21	17:50-18:10	Popov Yu.; Chekhonin E.	Skolkovo Institute of Science and Technology	Role of new technologies of thermal petrophysics in enhancement of thermal EOR efficiency
22	18:10-18:30	I.Sh.S. Salih; I.I. Mukhamatdinov; A.V. Vakhin	Kazan Federal University, Russia	Influence of the oil soluble precursors of catalysts on the fractional composition of resins and asphaltenes in the hydrothermal process
23	18:30-18:50	Ruyan Wang	Xinjiang Oilfield Company, PetroChina, China	The Application of the Magnetic Method to Monitor In-situ Combustion Front in Heavy Oil Reservoir
24	18:50-19:10	Dongdong Wang; Nanjun Lai	Southwest Petroleum University, China	Development and application of polymeric surfactant emulsification and viscosity reduction system

TRANSPORTATION AND TICKETS



交通提示 TRANSPORTATION

1、成都双流国际机场距西南石油大学 55km，乘出租车约 45 分钟 130-150 元。

55 km away from Chengdu Shuangliu International Airport to Southwest Petroleum University , 45 minutes and 130- 150 RMB by taxi.

2、成都火车北站距西南石油大学 25km，乘出租车约 35 分钟 70-90 元。

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