关于召开 "2019 ARMA-CUPB 地热

国际会议"的通知

从传统水热系统到增强型地热能源:与油气工业共享技术

各有关单位:

地热能作为一种重要的可再生清洁能源,具备储量巨大、用途 广泛、利用系数高、安全系数高等诸多优点,发展前景广阔,是未 来能源开发的重要领域。而石油化石能源是目前各国的主要能源, 其与地热能在开采过程中有很多共通之处。

为促进新理论、新方法和新技术在地热领域的发展,增进国际 交流,推动学科交叉、融合、发展,由美国岩石力学学会(ARMA) 与中国石油大学(北京)共同主办,拟定于2019年8月5-8日在北京召 开 2019 ARMA-CUPB 地热国际会议。会议主题:从传统水热系统到 增强型地热能源:与油气工业共享技术。参会代表来自中国、美国、 英国、瑞士、韩国、印度等不同国家地区,会议规模预计150余人。

特邀报告嘉宾包括ARMA前主席、犹他大学讲习教授John McLennan, ARMA主席、美国劳伦斯实验室Joe Morris, 美国工程院 院士、美国宾州州立大学Derek Elsworth,美国能源部FORGE地热项 目首席科学家Joe Moore,美国工程院院士、斯坦福大学讲习教授 Roland Horne等10余位地热与岩石力学领域知名专家以及国内特邀嘉 宾: 汪集暘院士、多吉院士、马永生院士、曹耀峰院士、苏义脑院 士等。



一、主办单位

美国岩石力学学会(American Rock Mechanics Association)

中国石油大学(北京)

 \Box , Conference Committee

ADVISORY COMMITTEE

Chair: John McLennan – ARMA Fellow / U of Utah, Gensheng Li – CAE / VP of CUPB

Derek Elsworth – ARMA Fellow / US NAE / Penn State Univ. Yongsheng Ma - CAE / President of SINOPEC Maurice Dusseault – ARMA Fellow / U of Waterloo Jiyang Wang – CAS / CAS Institute of G & G Ji Duo – CAE / Geological Survey of Tibet Yaofeng Cao – CAE / Former VP of SINOPEC

Yinao Su – CAE / CNPC Petro. Eng. Institute Zhaoping Zhang – President of SINOPEC Star Baoping Lu – President of SINOPEC Research Institute of PE Qingyou Liu – President of Chengdu U of Technology

ORGANIZING COMMITTEE

Chair: Gang Han - ARMA Vice President / Aramco **Co-Chairs:** Xianzhi Song - CUPB, Shu Jiang - U of Utah / China U of Geosciences (Wuhan)

Joe Morris – ARMA President / Lawrence Livermore Peter Smeallie – ARMA Executive Director Ahmad Ghassemi – ARMA TCHF / OU Doug Blankenship – ARMA TCHF / Sandia Branko Damjanac – ARMA TCHF / Itasca Xiaodong Ma – ARMA FL / ETH Zürich Christopher Pain – Imperial College London Baoci Xu – U of Waterloo Weiguo Liang – Taiyuan U of Technology Zhonghe Pang – CAS Institute of G & G Zhongwei Huang – CUPB Mao Sheng – CUPB Haiyan Zhu – Chengdu U of Technology Jianchun Guo – Southwest Petro Univ. Dongguang Wen – China Geological Survey Jialing Zhu – Tianjin Univ. Yangsheng Zhao – Taiyuan U of Technology

KeWen Li – CUG (Beijing) /Stanford Univ. Guiling Wang – China Geological Survey Dianbin Guo – SINOPEC Star Ruixia Li – SINOPEC Star new Eng. Institute Kaibin Qiu – Schlumberger Xinming Niu – Sinopec Petro. Eng. Institute Zhaofeng Zhang – CNPC Greatwall Drilling Tianyi Lin – Beijing Geothermal Institute Jian Tian – Huanhe Geo-energy Company Peixue Jiang, Bisheng Wu – Tsinghua Univ. Tianfu Xu – Jilin Univ. Haizhu Wang, Yigun Zhang– CUPB Shifeng Xue – UPC Wu Wei – Nanyang Technological Univ. Jianjun Liu – CAS Institute of Rock & Soil Yarlong Wang – Petro-Geotech





Ξ 、Short Course



» Basic Geomechanics Considerations in Drilling Geothermal Wells

John McLennan Adjunct Professor, Civil And Environmental Engineering, University of Utah Associate Professor, Chemical Engineering, University of Utah



» Hydroshearing and Hydrofracking: Naturally Fractured Rock Mass Stimulation for EGS

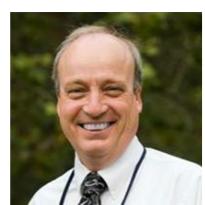
Maurice B. Dusseault PhD, ARMA Fellow Professor, Earth and Environmental Sciences Dept., University of Waterloo, Waterloo



» Controls on Permeability and Seismicity in EGS Reservoir

Derek Elsworth ARMA Fellow, Academician of the American Academy of Engineering Professor, Departments of Energy and Mineral Engineering and Geosciences, G3 Center and EMS Energy Institute, Pennsylvania State University, University Park, USA

四、Keynote Presentation



» FORGE in 2019

John McLennan





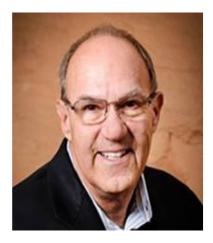
Adjunct Professor, Civil And Environmental Engineering, University of Utah Associate Professor, Chemical Engineering, University of Utah



» The Drilling, Stimulation and Extraction Technologies for Geothermal Resources

Gensheng Li

Member of Chinese Academy of Engineering Vice President, China University of Petroleum, Beijing Professor, China University of Petroleum, Beijing Director of State Key Laboratory of Petroleum Resources and Prospecting



» The Frontier Observatory for Research on Geothermal Energy (FORGE): A Laboratory for Enhanced Geothermal System Development

Joseph Moore Department of Civil and Environmental Engineering Adjunct Professor Energy and Geoscience Institute, University of Utah, Salt Lake City, Utah Associate Editor for the Americas, Geothermics Technical Advisory Board, Geothermal Energy Association



» Optimizing Liquids- and Gas-Fracturing for Permeability Evolution in Naturally- and Artificially-Fractured Reservoirs

Derek Elsworth ARMA Fellow, Academician of the American Academy of Engineering Professor, Departments of Energy and Mineral Engineering and Geosciences, G3 Center and EMS Energy Institute, Pennsylvania State University, University Park, USA







» The Impact of Stress and Fracture Roughness on Flow and Heat Transfer in Geothermal Rocks

Roland N. Horne

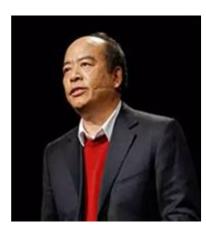
Professor of Earth Sciences and Professor of Energy Resources Engineering at Stanford University Director of the Stanford Geothermal Program Member of the US National Academy of Engineering Honorary Member of the Society of Petroleum Engineers



» Can We Model Stimulation Processes in Naturally Fractured Geothermal Reservoirs?

Maurice B. Dusseault PhD, ARMA Fellow Professor, Earth and Environmental Sciences Dept., University of Waterloo, Waterloo

五、Invited Presentation



» Geological conditions for the development of China's Enhanced Geothermal System

Zhonghe Pang Director, Geothermal Resources Research Center, Institute of Geology and Geophysics, Chinese Academy of Sciences Program Leader, Hydrogeological Processes and Probing, IGGCA Head, Laboratory for Water Isotopes and Water-Rock Interaction, IGGC.







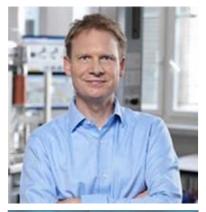
New methods for reservior and inertia dominated fluid dynamics modelling in geothermal energy extraction and Oil & Gas

Christopher C. PAIN Professor of Earth Science and Engineering at Imperial College London (ICL), UK. Head of Applied Computation and Modelling Group (AMCG)



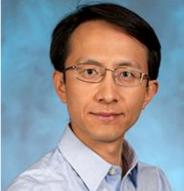
» Coupled Processes, Rock Deformation, and Fracture in EGS Development

Ahmad Ghassemi McCasland Chair Professor of the Mewbourne School of Petroleum & Geological Engineering, OU Director of the Halliburton Rock Mechanics Laboratory



» Combining geologic CO2 storage with 1) geothermal power generation, 2) subsurface, grid-scale energy storage, and 3) direct-air CO2 capture

Martin Saar Chair of the Geothermal Energy and Geofluids (GEG) Group Department of Earth Sciences, ETH Zurich, Switzerland



» EGS Collab Project: Overview, Progress, and Invitation to a Rich, High-Quality Dataset for EGS





Model Validation

Pengcheng Fu

Earth Scientist, Computational Geosciences Group at Lawrence Livermore National LaboratoryMember of The EGS Collab team



Research on the coupled Method of Explosionhydraulic Fracturing by Downhole Robot in Hot-Dry Rock

Qingyou Liu

The Ministry of Education Yangtze River Professor President of Chengdu University of Technology Academic director of Drill Bit Laboratory



» The Challenge and Future Development of Hydraulic Fracturing in Deep Hot-Dry Rock in EGS

Jianchun Guo

The Ministry of Education Yangtze River Professor Vice president of Southwest Petroleum University Deputy director of the State Key Laboratory of Oil and Gas Reservoir Geology and Exploitation



» New Technology for Coproduction of Oil-heatelectricity in Oil Fields

Kewen Li Senior Scientist/Research Manager at Stanford University Professor at China University of Geosciences, Beijing

» Modeling Thermal-Hydraulic-Mechanical



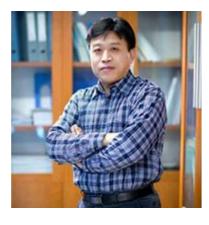


Processes in Enhanced or Engineered Geothermal Systems

Yushu Wu

Professor of petroleum reservoir engineering, Colorado School of Mines (CSM), USA Chair, Energi Simulation Reservoir Modeling

Director of Energy Modeling Group (EMG) research center in the Petroleum Engineering Department



» Challenges and New Technologies for Deep Geothermal Well Drilling and Completion

Zhongwei Huang Director, Department of Well Drilling, College of Petroleum Engineering, China University of Petroleum, Beijing, China (CUPB) Director, Geothermal Research Center, State Key Laboratory of Petroleum Resources and Prospecting, CUPB



» From Steaming Ground to Power Plant -- A Review on the Yangyi 16-MW Geothermal Project

Haibing Shao Junior Professor, Staff Scientist, Department of Environmental Informatics Helmholtz Centre for Environmental Research – UFZ (National Lab), Germany Editor-in-Chief, Geothermal Energy



六、大会日程

2019年8月5日: 上午注册(注册费\$700/¥4690),下午短课培训

2019年8月6日: 主题报告: 钻完井、增强地热系统、压裂生产、CO₂ 与环境

2019年8月7日: 主题报告: 地热开发开发、实例分析、数值模拟、 实验与模型

2019年8月8日:现场考察:北京世园会地热考察

会议地点及住宿:

中国北京市昌平区小汤山镇九华山庄酒店16区(单人间、标准间)

大会详细日程

(具体日程会随时更新请在官网查看)

August 5, 2019		
Short Course: Training and Registration		
13:00 - 17:00	John McLennan: Basic Geomechanics Considerations in Drilling	
	Geothermal Wells	
	Maurice Dusseault: Hydroshearing and Hydrofracking: Naturally	
	Fractured Rock Mass Stimulation for EGS	
	Derek Elsworth: Controls on Permeability and Seismicity in EGS	
	Reservoirs	
August 6, 2019		
8:00 - 8:30	Opening Mark: ARMA and CUPB Chairs	
Opening Keynote		
8:30 – 9:00	Gensheng Li: The Drilling, Stimulation and Extraction Technologies	
	for Geothermal Resources	





	Session 1: Drilling and Completion	
Chairs: Jiang Shu(CUG-UU),Yarlong Wang(Petro-Geotech Canada)		
9:00 – 9:20	Zhongwei Huang: Challenges and New Technologies for Deep	
Invited Talk	Geothermal Well Drilling and Completion	
	Masoud RASHIDI: Support Vector Machine's Application in	
9:20 – 9:35	Estimation of the Drilling Rate of Penetration	
	Zifan Zhang: Three dimensional DEM simulation of rock	
9:35 – 9:50	indentation by flat-joint model	
	Jiajia Gao: Fully Coupled Thermo-Hydro-Mechanical Analysis of	
9:50 - 10:05	Wellbore Stability in Hot Dry Rock formation with Dual Porosity	
	and Dual Permeability	
10:05 – 10:20	Sun Feng: Impact of In-plane Perforations on Near-Wellbore	
10.05 10.20	Fracture Geometry in Horizontal Wells	
10:20 - 10:35	Song Xianfeng: A Phenomenological Model of Percussive Drilling:	
	Review of Experimental Evidence	
10:35 – 10:45	Coffee Break	
	Session 2: Enhanced Geothermal System	
Chairs: Ahmad Ghassemi (Oklahoma U), Xianzhi Song (CUPB)		
10:45 – 11:05	Pengcheng Fu: EGS Collab Project: Overview, Progress, and	
Invited Talk	Invitation to a Rich, High-Quality Dataset for EGS Model Validation	
11:05 – 11:25	Jianchun Guo: The Challenge and Future Development of	
Invited Talk	Hydraulic Fracturing in Deep Hot-Dry Rock in EGS	
	, , ,	
11:25 – 11:45	Kewen Li: New Technology for Coproduction of Oil-heat-electricity	
Invited Talk	in Oil Fields	
	Xiaodong Ma: Bedretto Underground Laboratory (BUL),	
11:45 – 12:00	Switzerland, and the planned in situ hydraulic stimulation	
	experiments for EGS	
12:00 - 12:15	Ruiyue Yang: Experimental Investigation of Liquid Nitrogen	
12.00 - 12.15	Fracturing of Granite Under Triaxial-Confining stresses	
	Yilong Yuan: Coupled Thermo-Hydro-Mechanical Modeling for	
12:15 – 12:30	Hydro-shearing Stimulation of an Enhanced Geothermal System in	
	the Raft River	
12.20 12.20	Lunch Keynote John McLennan: FORGE in 2019	
12:30 - 13:30		
Chaine Us	Session 3: Hydraulic Fracturing	
	iyan Zhu (Chengdu U of Tech); Xiandong Ma (ETH Switzerland)	
13:30 – 13:50	Ahmad Ghassemi: Coupled Processes, Rock Deformation, and	
Invited Talk	Fracture in EGS Development	
13:50 – 14:10 Invited Talk	Qingyou Liu: Research on the Method of Explosion-hydraulic Fracturing for Hot Dry Rock Used Downhole Robot	
	Yarlong Wang: Thermal Cracking near a Hydraulic Fracture during	
14:10 - 14:25	EGS Processes : Finite Element Model and Implications	
	Ayaka ABE and Roland N. HORNE: Investigating Wing Crack	
14:25 – 14:40	Propagation during Hydraulic Stimulation in an EGS Reservoir	
14.40 44.55	Guangqing Zhang: Hydraulic Fracturing in High-Temperature	
14:40 – 14:55	Granite Characterized by Acoustic Emission	
	Yongxiang Zheng: A 3D numerical simulation of hydraulic	
14:55 – 15:10	fracturing in orthogonal joints formation based on block discrete	
	elements	





15.40 45.25	Xuhai Tang: A coupled thermo-mechanical model based on	
15:10 – 15:25	TOUGH-FEMM for simulating three-dimensional cracking processes	
	Dong Liu: Effect of Solid Non-linearity on the Growth of a Radial	
15:25 – 15:40	Hydraulic Fracture Accounting for the Viscous Fluid Flow in a Rough Cohesive	
	Tianyi Lin: Application Research of Acid-Fracturing Technology in	
15:40 – 15:55	Hydrothermal System	
15:55 – 16:10	Wei Wu: Mechanism of injection-induced seismicity: recent	
16:10 - 16:20	insights and implications Coffee Break	
10.10 - 10.20	Session 4: CO2 and Environment	
Chairs:	Jeoung Seok Yoon (GFZ Germany); Shifeng Xue (UPC)	
16:20 - 16:40	Martin O. Saar: CCUUUS: Utilizing CO2 capture and storage for 1)	
Invited Talk	geothermal power generation, 2) subsurface energy storage, and	
	3) direct-air CO2	
	Kelvin Bongole: Efficient geothermal extraction with CO2	
16:40 - 16:55	sequestration by cyclic alternation of injection and production	
	pressures	
	Zixu Hu: Thermal and Fluid Processes in Closed-Loop Geothermal	
16:55 – 17:10	System Using CO2 as Heat Transmission Fluid	
	Jie Wang: Study on the Influence of CO2 Finger-Channeling	
17:10 – 17:25	Flooding on Oil Displacement Efficiency and Anti-channeling	
Method		
	Jeoung Seok YOON: Numerical analysis of fluid injection induced	
17:25 – 17:40	fault activation - Effect of fault hydraulic properties on activation	
	magnitudes and its mechanisms	
	Yunzhong Jia: Fluid Pressure Heterogeneity in Rock Fractures and	
17:40 – 17:55	Associated Frictional Slip	
	FENG Bo: Influences of reinjection by lake water and geothermal	
17:55 – 18:10	tail water into the dolomite thermal reservoir of the Wumishan	
	Formation	
	Welcome Reception	
18:30 – 19:30	Opening speaking: ARMA and CUPB Keynote	
	Derek Elsworth: Optimizing Liquids- and Gas-Fracturing for	
19:30 – 20:00	Permeability Evolution in Naturally- and Artificially-Fractured	
	Reservoirs	
20:00 - 20:30	Maurice Dusseault: Can We Model Stimulation Processes in	
	Naturally Fractured Geothermal Reservoirs?	
August 7, 2019 Morning Keynote		
	Joseph Moore: The Frontier Observatory for Research on	
8:00 - 8:30	Geothermal Energy (FORGE): A Laboratory for Enhanced	
	Geothermal System Development	
Session 5: Field Development		
Chairs: Jian Zhou (SINOPEC); Sheng Mao (CUPB)		





8:30 - 8:50	Zhonghe Pang: Geological conditions for the development of
Invited Talk	China's Enhanced Geothermal System
8:50 - 9:10	Haibing Shao: From Steaming Ground to Power Plant A Review
Invited Talk	on the Yangyi 16-MW Geothermal Project
9:10 - 9:25	Shengrong Song: Current Status of Geothermal Developments in
5110 5125	Taiwan
	Mohammed Ba Geri: New Opportunities and Challenges to
9:25 – 9:40	Discover and Develop Unconventional Plays in The Middle East
	and North Africa: Critical
9:40 – 9:55	Shu Jiang: Present geothermal fields and geothermal resource
5.10 5.55	potentials in the Dongpu Depression
	Peter MEIER: Benchmark testing of Zonal Isolation borehole
9:55 – 10:10	completions for multi-stage EGS stimulation in the Bedretto
	underground rock
10:10 – 10:25	Coffee Break
	Session 6: Case Studies
Ch	airs: Zhaowei Chen (CNPC); Kaibin Qiu (Schlumberger)
10:25 – 10:40	Zhaowei Chen: Case study: Casing deformation and Fault slip
10:25 - 10:40	induced by Hydraulic Fracturing in Sichuan Basin
	Masoud Rashidi: Classification Ability of Machine Learning
10:40-10:55	Algorithms for Optimum Drilling Bit Type Selection A Case Study
	using Comprehensive Drilling and Logging Data
	Deining Lu, Chudu an a New Consent Clump, Custom with High
10:55-11:10	Peiqing Lu: Study on a New Cement Slurry System with High
	Temperature Resistance for the Hot-dry Rock Formation
	Zhengbin Wu: Influence of Mineral Composition on Thermal
11:10 – 11:25	Conductivity and Productivity of Carbonate Geothermal Reservoir
	Yu Wang: Heat Extraction Potential Evaluation of Supercritical
11:25 – 11:40	WaterBased on IDDP-2 Well of Reykjanes Geothermal Field,
	Iceland
11:40 - 11:55	Chyi Wang: Outlook of Geothermal Exploration Potentials in
	Taiwan Through Play Fairway Analysis, Chyi WANG
	Lunch Keynote
12:00 - 13:00	Roland Horne: The Impact of Stress and Fracture Roughness on
	Flow and Heat Transfer in Geothermal Rocks
	Session 7: Reservoir Simulation and Engineering
Chairs: Fu	jian Zhou (CUPB); Christopher Pain (Imperial College London)
13:00 - 13:20	Chris Pain: New methods for reservior and inertia dominated fluid
Invited Talk	dynamics modelling in geothermal energy extraction and Oil &
	Gas
13:20 – 13:40	Yushu Wu: Modeling Thermal-Hydraulic-Mechanical Processes in
Invited Talk	Enhanced or Engineered Geothermal Systems
13:40 - 13:55	Azadeh Riahi & Branko Damjanac: Informed Design of EGS
_00 10.00	Operations using Numerical Modeling Tools
13:55 – 14:10	Fengyu Li: Optimization of geothermal injection and production





	using coupled thermal-hydraulic modeling		
14:10 - 14:25	Zhao Zhang: A Flow Diagnostic Method for Geothermal Reservoirs		
14:25 - 14:40	Heng Zhang: Study on a Dual Embedded Discrete Fracture Model Based on Local Upscaling		
14:40 - 14:55	Shiyuan Li: Numerical Modeling of Reactive Chemical Species Transport in Reservoir Fluids		
14:55 – 15:10	Junfei Ma: Applications of Carbon Dots as Sensitive Tracers in Reservoir Engineering		
15:10 - 15:25	Coffee Break		
Session 8: Experiments and Models Chairs: Yiqun Zhang (CUPB); Bisheng Wu (Tsinghua University)			
15:25 – 15:40	Gongsheng Zhu: Experimental study on the mechanical properties of the pre-treated granite with high temperature		
15:40 - 15:55	Mianmo Meng: The Study of Tight Gas Reservoirs Imbibition by Nuclear Magnetic Resonance		
15:55 – 16:10	Gang Wang: Evolution of seepage in microfracture structure of coal subject to 3D stress environment		
16:10 - 16:25	Hua Zhang: Inference of in-situ stress from thermoporoelastic borehole breakouts in Enhanced Geothermal Systems development		
16:25 – 16:40	Marshal Wigwe: Influence of Fracture Treatment Parameters on Hydraulic Fracturing Optimization in Unconventional Formations		
16:40 - 16:55	Lei Zhou: A novel 3D numerical model to simulate the induced		
16:55 – 17:10	Xiang7hao Kong: Experimentally exploring permeability evolution		
17:10	Closing Mark: ARMA and CUPB		

六、Poster Presentation

Drilling and Completion	A Transient Pressure Analysis for Wellbore Strengthening	Yang Liu
	How and Would Hydraulic Fracturing process affect Wellbore Stability near a Cooled/heated well?	Yarlong Wang
	Experimental study on the effect of filling rate and filling thickness on sand control effect and productivity of pre-filling sand control screens	Chengyun Ma
	Analytical model of collapse pressure in fracture zone based on hot dry rock concerning the effect of incompatible deformation	Yingtong Ju
	Supervised Classification by Support Vector Machines to Identify Formation Lithology Based on Drilling and Core Analysis Data	Masoud Rashidi
	Analysis of Cement Sheath Integrity in Thermal Wells Using Finite Element Method	Chengcheng Zhang





Effect of temperature recovery on time-dependent wellbore stability in geothermal drilling	Jian Zhang
Effect of temperature variation on time-dependent wellbore stability in geothermal drilling	Jian Zhang
Predicting bubble drag coefficient and settling velocity of sphere in bubble containing Newtonian fluids	Silin Jing
Inclination-Hold Angle Optimization of Extended Reach Well: For the Maximum Extension in Target Formation Under its Pressure- Bearing Limitation	Qimin Liang
Improved Calculation Method of Conductor Mechanics Based on Field Simulation Experiment	Yongqi Ma
Experiment on the damage of cement-shale combination samples	Rengguang Liu
Study on Borehole Stability of Offshore HTHP Wells during Open Hole Testing	Erjun Wang
Application of Formation Pressure While Drilling Prediction Technology in Offshore HTHP Wells	Yi Huang
Structural Failure Mechanism of Fracture Plugging Zone for Lost Circulation Control in Geothermal Well Drilling	Xiaopeng Yan
Promoting hydraulic fracturingside benefits of the DTH hammer drilling in HDR reservoirs	Jianming Peng
Study on a new cement slurry system with high temperature resistance for the hot-dry rock formation	Peiqing Lu
An Analytical Method for Heat Extraction Through the Split Fractures in the Enhanced Geothermal System	Yijia Tang
	Yarlong Wang
Carbon Dioxide-Based Enhanced Geothermal System: A Review	Wei Zhang
Induced Flow Channeling in Enhanced Geothermal Systems	Ali Ghavidel
The comparative study on acid and alkaline chemical stimulation with Hot Dry Rock (HDR) rich of quartz-rich minerals	Bo Feng
Development status of enhanced geothermal system	Hang Wen
Fracture Initiation Characteristics from Multiple Radial Wellbores	Qingling Liu
The Challenge and Future Development of Hydraulic Fracturing in Deep Hot-Dry Rock in EGS	Jianchun Guo
Effect of fluid compressibility on hydraulic fracture breakdown pressure	Tianyu Wang
	stability in geothermal drilling Effect of temperature variation on time-dependent wellbore stability in geothermal drilling Predicting bubble drag coefficient and settling velocity of sphere in bubble containing Newtonian fluids Inclination-Hold Angle Optimization of Extended Reach Well: For the Maximum Extension in Target Formation Under its Pressure- Bearing Limitation Improved Calculation Method of Conductor Mechanics Based on Field Simulation Experiment Experiment on the damage of cement-shale combination samples Study on Borehole Stability of Offshore HTHP Wells during Open Hole Testing Application of Formation Pressure While Drilling Prediction Technology in Offshore HTHP Wells Structural Failure Mechanism of Fracture Plugging Zone for Lost Circulation Control in Geothermal Well Drilling Promoting hydraulic fracturingside benefits of the DTH hammer drilling in HDR reservoirs Study on a new cement slurry system with high temperature resistance for the hot-dry rock formation An Analytical Method for Heat Extraction Through the Split Fractures in the Enhanced Geothermal System The Effect of Pressure-dependent Permeability on EGS in Low- permeability HDR Carbon Dioxide-Based Enhanced Geothermal System: A Review Induced Flow Channeling in Enhanced Geothermal Systems The comparative study on acid and alkaline chemical stimulation with Hot Dry Rock (HDR) rich of quartz-rich minerals Development status of enhanced geothermal system Fracture Initiation Characteristics from Multiple Radial Wellbores The Challenge and Future Development of Hydraulic Fracturing in Deep Hot-Dry Rock in EGS Effect of fluid compressibility on hydraulic fracture breakdown





	Experimental Investigation of Geometric Effects on Rock Mechanical Behaviors	Hui Li
	Temperature-dependency of Mechanical Properties of Hydraulic Fracture Surface and its Influence on Conductivity: An Experimental Study for Development	Ning Li
	Thermal Stability Effect of the Rheological Characterization of Friction Reducers on Hydraulic Fracturing Application	Mohammed Ba Geri
	Using Microfluidic Experiment to Study the Distribution of Oil and Water during the Shut-in Treatment	Xingyuan Liang
	A New Analytical Model for Transient Temperature Analysis of Fractured Geothermal Wells	Zhiming Chen
	Hydraulic fracture propagation in sand-mudstone interbedded reservoir integrated with different fluid flow of multi-perforated fractures	Haiyan Zhu
	Effects of Hydrochloric Acid on the Mechanical And Elastic Properties of Tight Dolomite	Bo Gou
	Investigation of the Hydraulic Fracturing Process in Conglomerate Reservoir Using Discrete Element Method	Shentu Junjie
	Research on Main Control Factors Influencing Fracturing Effect of Jiaoshiba Area Based on Grey Relational Analysis	Yue Xiao
	A Semi-Analytical Model for Pressure Transient Analysis of Horizontal Well with Multiple and Arbitrary-shape Horizontal Fractures	Hongyang Chu
	Analysis of Thermal and Operating Performance of Thermosyphon and Heat Pipe	M. Finlayson
ies	Exploration and Application of Water Shut-off Technology without Moving Production String in High Water Cut Wells	Jie Wang
Case Studies	From Steaming Ground to Power Plant A Review on the Yangyi 16-MW Geothermal Project	Haibing Shao
Case	Molecular simulation research of the mechanical properties of hydrated clay-minerals with high temperature	Lizong Li
	US Department of Energy's Geothermal Technology Office and its project review	Chongxin Jiang
ition r	Research on the influence of thickness and test method on fracture characteristics of thin layered rock mass	Yizhao Jianyong Wang
imula servoi sering	Simulating Hydraulic fracturing process in EGS by a dual-porosity model in Naturally or induced fractured formations	Yarlong Wang and Wenda Li
Reservoir Simulation and Reservoir Engineering	Comparison of Extended Path of Cracks in Layered Rocks under Three Different Loading Modes	Yizhao Wang
Rese a	Influence of formation heterogeneity on heat transfer mechanism of doublet well system	Bo Feng
Experiments and Models	Thermal Conductivity Variation of Granite Subjected to Mechanical Damage	Zhengwei Li
CO2 and Environme nt	Thermal and Fluid Processes in Closed-Loop Geothermal System Using CO2 as Heat Transmission Fluid	Zixu Hu





	Mineralogy-controlled friction, stability and dilation properties for China's major reservoir rocks	Mengke AN
Field Development	Potential chemical damaging to the geothermal reservoir and optimization of double-well heat production and injection system	Jingyi Chen
eld De	Effect of internal heat recovery on thermodynamic performance for geothermal organic flash cycles	Dongyu Meng
Ë	Energy and exergy analyses of organic Rankine cycles with selected working fluids using low-enthalpy geothermal resources	Qiang Liu

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附录

网页报名流程





