

# Program at a glance

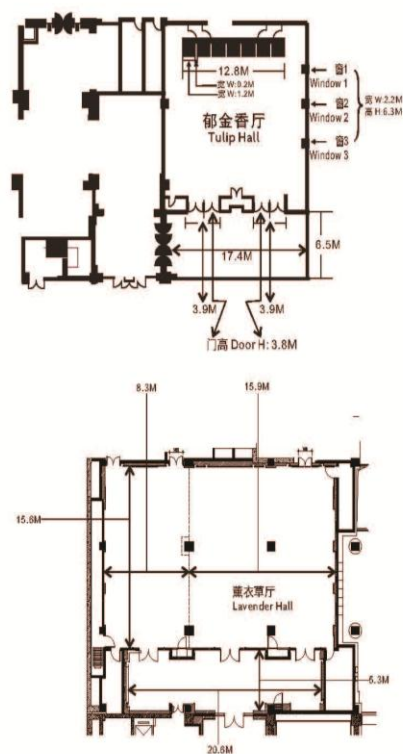
Date	Site	Hotel Lobby	Lavender Hall (薰衣草厅)	Grand Ballroom (大宴会厅)	Poster Area (大宴会厅外)	Osmanthus Hall (桂花厅)	Plum Hall (梅花厅)	Lily Hall (百合厅)	Tulip Hall (郁金香厅)
	Time								
Dec. 16 (Friday)	Afternoon	Registration (10:00-22:00)							
	Evening	Reception (17:30-20:00)							
Dec. 17 (Saturday)	Morning	Registration (8:00-10:00)		Opening (8:30-8:50)					
				Group photos (8:50-9:10)					
				Plenary Lecture HV (9:10-12:00)					
	Afternoon								
					Poster (15:25-16:25)				
Dec. 18 (Sunday)	Morning			Plenary Lectures V-VIII (8:30-11:30)					
	Afternoon				<b>Session 5</b> Modeling and Numerical Methods (13:30-18:00)	<b>Session 6</b> Bubble and Droplet (13:30-18:00)	<b>Session 7</b> Experimental Techniques and Instrumentation (13:30-18:00)	<b>Session 8</b> Clean Coal Technology (13:30-18:00)	
	Evening		Banquet (18:30-20:00)						
Dec. 19 (Monday)	Morning				<b>Session 9</b> Heat and Mass Transfer (2) (8:15-12:15)	<b>Session 10</b> Applications of Multiphase Flow (8:15-12:15)	<b>Session 11</b> Alternative Energy and Renewable Energy (2) (8:15-12:15)	<b>Session 12</b> Micro-Nanoscale Multiphase Flow and Others (8:15-12:15)	
	Nooning	Closing (12:15-13:30)							

# Meeting Rooms and Dining Room

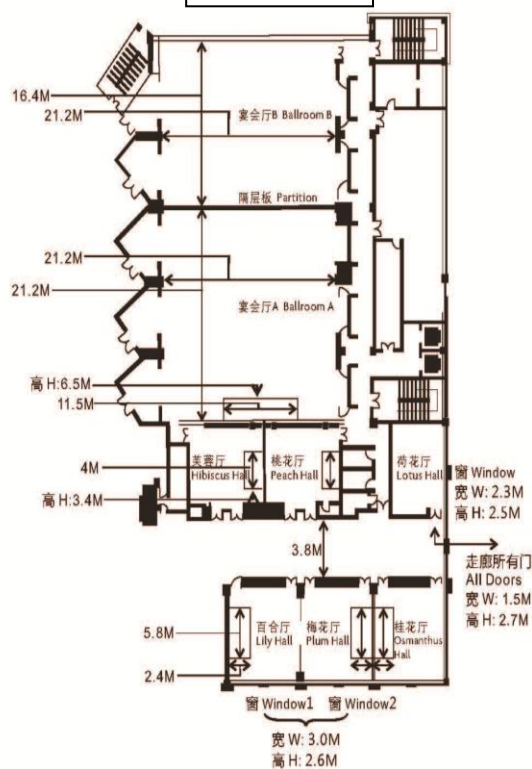
会议厅平面图

Meeting Room Floor Plan

First floor



Second floor



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- Plenary presentations are in Grand Ballroom (大宴会厅).
- Session rooms are Osmanthus Hall (桂花厅) (session 1, 5 and 9), Plum Hall (梅花厅) (session 2, 6 and 10), Lily Hall (百合厅) (session 3, 7 and 11) and Tulip Hall (郁金香厅) (session 4, 8 and 12).
- Dining room is Lavender Hall (薰衣草厅).

# Program

Friday, Dec. 16, 2016					
Time	Activity	Address		Note	
10:00-22:00	registration	Lobby of the Hotel			
17:30-20:00	reception	Lavender Hall			
Saturday, Dec. 17, 2016					
Time	Activity	Address		Note	
8:00-10:00	registration	Lobby of the Hotel			
8:30-8:50	opening remarks	Grand Ballroom	Host: Prof. Bofeng Bai, State Key Laboratory of Multiphase Flow and Power Engineering		
8:50-9:10	Group Photo (Garden outside the Hotel)				
Plenary lecture					
Address: Grand Ballroom					
Saturday, Dec. 17, 2016					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Liejin Guo (Xi'an Jiaotong University) & Prof. Jianchun Guo (Southwest Petroleum University)					
9:10-9:50	plenary	P1	Aibing Yu	Micromechanic modelling and analysis of particle-fluid flow, heat and mass transfer in fluid bed reactors	Monash University
9:50-10:30	plenary	P2	Shouwei Zhou	Status of Chinese Research on NGH & Its Development Strategy	SKLOGRGE, Southwest Petroleum University
10:30-10:40	Tea break				
10:40-11:20	plenary	P3	Zhaoli Guo	Discrete unified gas kinetic scheme for multiscale flow problems	Huazhong University of Science and Technology
11:20-12:00	plenary	P4	Lionel Vayssieres	Low Cost HeteroNanostructures for Solar Hydrogen Generation	Xi'an Jiaotong University
12:00-13:30	Lunch break				
Address: Grand Ballroom					
Sunday, Dec. 18, 2016					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Aibing Yu (Monash University) & Prof. Ahmed F. Ghoniem (Massachusetts Institute of Technology)					
8:30-9:10	plenary	P5	Xiangdong Yao	Defective Carbons for ElectroCatalytic Reaction: A Defect Catalysis Mechanism	Griffith University
9:10-9:50	plenary	P6	Mikio Sakai	Recent advances in multi-physics modeling for multiphase flows	University of Tokyo
9:50-10:10	Tea break				
10:10-10:50	plenary	P7	Peixue Jiang	Spray cooling and jet impingement cooling: Heat transfer enhancement and its mechanism	Tsinghua University
10:50-11:30	plenary	P8	Benoit Fiorina	Modeling Combustion Chemistry in Large Eddy Simulations of Turbulent Flames	CentraleSupélec, EM2C laboratory
12:00-13:30	Lunch break				

SEESION 1						
Osmanthus Hall						
Saturday, Dec. 17, 2016		Topic: Particle Science and Technology				
Time	Activity	No.	Presenter	Title of the presentation	Affiliation	
Chair(s): Prof. Zhaohui Liu (Huazhong University of Science and Technology) & Prof. Lixing Zhou (Tsinghua University)						
13:30-13:55	Keynote	142	Lixing Zhou*, Fang Wang	SGS Stress Models for LES of Two-Phase Flows and Combustion	Tsinghua University	
13:55-14:10	oral	195	Pengwei Liao, Guodong Liu*, Wenhao Yu, Qi Wang, Huilin Lu	DEM-CFD simulation of particle flow behaviors in electric field assisted gas-solid fluidized bed	Harbin Institute of Technology	
14:10-14:25	oral	10	Xumao Zou, Liangxing Li*, Liubo Kong	Experimental Study on Two-phase Flow Characteristics in Porous Beds with Coarse Particles	Xi'an Jiaotong University	
14:25-14:40	oral	182	Qi Dai, Kun Luo*, Tai Jin, Jianren Fan	Direct Numerical Simulation of Turbulence Modulation by Particles in Compressible Isotropic Turbulence	Zhejiang University	
14:40-14:55	oral	236	Hang Zhou, Qiuya Tu, Haigang Wang	Investigation of a gas-solid fluidized bed with Wurster tube based on Eulerian-Eulerian CFD model	Chinese Academy of Sciences	
14:55-15:10	oral	76	Ziwen Zuo*, Junfeng Wang, Yuanping Huo	Behavior of micro particles motion induced by a charged droplet	Jiangsu University	
15:10-15:25	oral	183	Yabin Jin, Jabin Fang*, Jinjia Wei	Numerical simulation for uniformity of heat flux for Al2O3-air mixture inside solar cavity receiver	Xi'an Jiaotong University	
15:25-16:25	Poster					
16:25-16:50	Keynote	240	Zhaohui Liu	Multi-scale structures of turbulent gas-particle opposed jets flow	Huazhong University of Science and Technology	
16:50-17:05	oral	199	Jiafeng Geng, Yechun Wang, Xiaowei Hu, Dengwei Jing	Experimental and Theoretical Analysis of Particle Transient Transport Phenomenon in Flowing Suspension	Xi'an Jiaotong University	
17:05-17:20	oral	37	Chao Zhang, Yueshe Wang*, Haijun Wang, Chenpei Li	Microscopic mechanism for the effect of adding salt on the phase behavior of organic acid-water aerosol from molecular dynamics simulations	Xi'an Jiaotong University	
17:20-17:35	oral	15	Enbo Zhang, Dezhi Zeng*, Naiyan Zhang, Gang Tian, Feng Wang	Numerical simulation of sulfur particle trajectories and analyses of erosion characteristic in elbow	SKLOGRGE, Southwest Petroleum University	
17:35-17:50	oral	38	Jukai Chen, Yueshe Wang*, Wenhong Liu	Erosion Prediction of Gas-particle Two-phase Flow in Premium Connection Tubing	Xi'an Jiaotong University	
17:50-18:05	oral	77	Yu Zhang*, Xiaohai Ma	Simulation of blood cell movement at a coronary artery with high-grade stenosis	Tsinghua University	
18:05-18:20	oral	162	Meijie Chen, Jian Huang, Yurong He*	Size Control of Gold Nanoparticles by Seed Growth	Harbin Institute of Technology	
18:30-20:00	Dinner break					
SEESION 2						
Pium Hall						
Saturday, Dec. 17, 2016		Topic: Heat and Mass Transfer (1)				
Time	Activity	No.	Presenter	Title of the presentation	Affiliation	
Chair(s): Prof. Bing Wang (Tsinghua University) & Prof. Hui Hu (Iowa State University)						

13:30-13:55	Keynote	139	Linyue Gao, Hui Hu*	An Experimental Study on Transient Ice Accretion Process over Airfoil Surfaces Pertinent to Wind Turbine Icing Phenomena	Iowa State University
13:55-14:10	oral	197	Weilong Zhang, Hong Liu*	Study of influencing factors of cavitation inside nozzle	Dalian University of Technology
14:10-14:25	oral	190	Chaoyue Li, Lei Shao, Xiaotian Peng, Weihua Liu, Jun Pan, Shiyu Feng*	Measurement of gas diffusivity in RP-3 jet fuel	Nanjing University of Aeronautics and Astronautics
14:25-14:40	oral	189	Yonghai Zhang, Jinjia Wei*, Xin Kong	Enhanced Boiling Heat Transfer of Jet Impingement over Staggered Micro-Pin-Finned Surfaces	Xi'an Jiaotong University
14:40-14:55	oral	167	Chonghai Huang, Dongjie Liu, Jinjia Wei*	Drag reduction performance of surfactant flow in longitudinal grooved channels	Xi'an Jiaotong University
14:55-15:10	oral	221	Liangjie Mao*, Qingyou Liu, Shouwei Zhou	Temperature Prediction Model of Gas Wells for Deep-water Testing in South China Sea	SKLOGRGE, Southwest Petroleum University
15:10-15:25	oral	212	Yufei Mao*, Fei Cao, Yuwu Hong, Qingjun Liu, Tianyu Zhu	A Semi-Empirical Correlation for Turbulent Convection Heat Transfer of Supercritical Fluids Flowing in Tubes	Hohai University
15:25-16:25	Poster				
16:25-16:50	Keynote		Bing Wang	Instabilities in Reacting Flows	Tsinghua University
16:50-17:05	oral	161	Haiyan Xie*, Wenyu Wang, Yaode Li, Siyang Wang, Dong Yang	Experimental Investigation on the Departure from Nucleate Boiling in a Vertical Upward Rifled Tube at Near-critical Pressures	Xi'an Jiaotong University
17:05-17:20	oral	141	Natthaporn Kaewchoothong, Takeishi Kenichiro, Kittinan Maliwan, Chayut Nuntadusit*	Heat Transfer Characteristics in a Square Channel with Inclined Rib Attachment	Prince of Songkla University
17:20-17:35	oral	24	Jiangtao Yu, Dalin Zhang*, Leitai Shi, Wenxi Tian, Guanghui Su, Suizheng Qiu	Experimental study on steam-water Co-Current Flow pressure drop characteristics in a scale-down model of the AP1000 surge line	Xi'an Jiaotong University
17:35-17:50	oral	151	Yike Wang, Siyu Chen, Xilian Luo*, Zhaolin Gu	Research on the Transfer of Salinity Ions in Soil-brick Coupled Media	Xi'an Jiaotong University
17:50-18:05	oral	127	Zhengyu Mo, Licheng Sun*, Guo Xie, Hongtao Liu, Min DU, Jiguo Tang, Jingjing Bao	A Preliminary Consideration of the Recuperator for Aerospace Gas Turbine	Sichuan University
18:05-18:20	oral	215	Xianliang Lei*, Nam Dinh, Huixiong Li	Dynamics Crossover Phenomenon in Supercritical Water	Xi'an Jiaotong University
18:30-20:00	Dinner break				
SEESION 3					
Lily Hall					
Saturday, Dec. 17, 2016      Topic: Alternative and Renewable Energy (1)					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Dr. Marco Fronzi (Xi'an Jiaotong University) & Dr. Maochang Liu (Xi'an Jiaotong University)					
13:30-13:55	Keynote	242	Maochang Liu	Controlling Mass Transportation in Synthesizing Photocatalytic Nanocrystals for Solar H2 Production	Xi'an Jiaotong University

13:55-14:10	oral	81	Chenzhen Ji, Zhen Qin, Swapnil Dubey, Fook Hoong Choo, Fei Duan*	Three-Dimensional Numerical Modelling of Thermal Energy Storage with Phase Change Materials for Waste Heat Recovery	Nanyang Technological University
14:10-14:25	oral	208	Shaohua Shen	Noble-metal Free Artificial Photosynthesis Systems for Solar Hydrogen Generation	Xi'an Jiaotong University
14:25-14:40	oral	209	Wenlong Fu, Maochang Liu, Fei Xue, Liejin Guo*	Manipulating the Heterostructures of a Visible-Light-Driven Composite Photocatalyst by Controlling the Mass Transportation during Synthesis	Xi'an Jiaotong University
14:40-14:55	oral	125	Chenyang Zhou*	Determination of minimum control pressure of A annulus in underground gas storage wells	SKLOGRGE, Southwest Petroleum University
14:55-15:10	oral	100	Qingyu Wei, Yan Yang, Junyi Hou, Haijun Liu, Fei Cao, Liang Zhao*	Experimental Study on Direct Solar Concentrating Hydrogen Production System	Xi'an Jiaotong University
15:10-15:25	oral	232	Wu Zhou, Lingyun He, Shaohua Shen*	n-WO3/p-Si junctional photocathodes for efficient solar hydrogen generation	Xi'an Jiaotong University
15:25-16:25	Tea break				
16:25-16:50	Keynote	243	Marco Fronzi	Nano cluster modified TiO <sub>2</sub> anatase and rutile surfaces for photo-catalytic processes	Xi'an Jiaotong University
16:50-17:05	oral	238	Xueqing Wang, Jun Hu, Tingting Dong, Ye Wang, Honghui Yang*, Xingyuan Ma, Anlong Zhang, Liejin Guo	Enhancement of Bio-H2 from Rhodobacter sphaeroides mutant via Redox Potential Regulation and process optimization	Shaanxi University of Science & Technology
17:05-17:20	oral	147	Hong Zhang, Jiali Feng, Liejin Guo, Liang Zhao*	Optimization of mixed gas producing conditions of methanogenic bacteria and acidogenic bacteria	Xi'an Jiaotong University
17:20-17:35	oral	149	Ling Wang, Guorui Yang*, Lei Zhu, Jianan Wang, Wei Yan*	Hierarchically Heterostructured ZnO-CdS/CdTiO3 Nanostructures: One-Pot Synthesis and Enhanced Photocatalytic Activity	Xi'an Jiaotong University
17:35-17:50	oral	114	Guozhao Ji, Ming Zhao*, Geoff Wang	Hydrogen Generation by Methane Steam Reforming in a Membrane Reactor with in-situ Carbon Capture	Tsinghua University
17:50-18:05	oral	132	Guorui Yang, Ling Wang, Jianan Wang, Wei Yan*	In-situ Fabrication of Branched TiO <sub>2</sub> nanostructures: enhanced performance in Photocatalytic H <sub>2</sub> evolution and Li-ion Batteries	Xi'an Jiaotong University
18:05-18:20	oral	181	Fei Cao*, Qingjun Liu, Yufei Mao, Liang Zhao, Tianyu Zhu	Numerical Simulation of a Geothermal-Solar Chimney Power Plant	Hohai University
18:30-20:00	Dinner break				
SEESION 4					
Tulip Hall					
Saturday, Dec. 17, 2016 Mini-Symposium: Computational Multiphase Flows					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Kun Luo (Zhejiang University) & Prof. Yansong Shen (University of New South Wales)					
13:30-13:55	Keynote	241	Yansong Shen	Process modelling of reacting flows and industry applications	University of New South Wales

13:55-14:10	oral	203	Limin Wang, Lin Zhang, Wei Ge	Lattice Boltzmann Method with Immersed Spring Boundaries for Flow around Deformable Porous Media	Chinese Academy of Sciences
14:10-14:25	oral	188	Chenshu Hu, Kun Luo*, Shuai Wang, Jianren Fan	Parameters Study of CFD-DEM Method in Simulating Spouted bed Thermal Mixing	Zhejiang University
14:25-14:40	oral	178	Esmaeil Abbaszadeh Molaei, Zongyan Zhou*, Aibing Yu	CFD-DEM Simulation of Layer Inversion in Liquid Fluidized Beds	Monash University
14:40-14:55	oral	176	Tianqi Tang, Ziyu Liu, Tong Tai, Yurong He*	Mixing Characteristics in a Double-Spout Fluidized Bed with Cohesive Liquid	Harbin Institute of Technology
14:55-15:10	oral	174	Zongyan Zhou*, Aibing Yu	CFD-DEM Application to Heat Transfer in Packed and Fluidized Beds	Monash University
15:10-15:25	oral	179	Ying Yin, Zhiguo Qu*, Liang Zhou	Numerical investigation of gas diffusion characteristics in reconstructed shale matrix	Xi'an Jiaotong University
15:25-16:25	Poster				
16:25-16:50	Keynote	191	Chaoli Mao, Kun Luo*, Jianren Fan	A ghost-cell compressible immersed boundary method for the fully resolved simulation of gas-solid flows	ZheJiang University
16:50-17:05	oral	78	Luming Chen, Xiaogang Yang*, Xia Li, Guang Li, Collin Snape	Dynamic Modelling of Formation of Fluidised Bubbles in Gas-solid Bubbling Fluidised Beds	University of Nottingham Ningbo University Park
17:05-17:20	oral	19	Qiang Fang, Yingfeng Meng*, Na Wei, Gao Li	Comparative Analysis of Different Difference Schemes and Limiters for 1D Two-Phase Flow Drift Flux Models	SKLOGRGE, Southwest Petroleum University
17:20-17:35	oral	43	Tian Hu, Yueshe Wang*	Structure Optimal of Liquid-Gas Cylindrical Cyclone Separator through Numerical Simulation	Xi'an Jiaotong University
17:35-17:50	oral	131	Xueliang Fan*, Weifeng Zhao, Xuan Xiao	Numerical Analysis of Creaming Process for mPCM Slurry	Soochow University
17:50-18:05	oral	160	Yansong Shen*, Junhai Liao, Aibing Yu	CFD-DEM Study of Brown Coals Injection In Ironmaking Blast Furnace: Comparing Coals Upgraded By Briquetting And Pyrolysis	University of New South Wales
18:05-18:20	oral	12	Na Wei*, Guangling Chen, Yingfeng Meng, Gao Li, Anqi Liu	Evaluation of anti erosion capacity and optimization of material selection of gas drilling sand drainage pipeline based on CFD simulation technology	SKLOGRGE, Southwest Petroleum University
18:30-20:00	Dinner break				
SEESION 5					
Osmanthus Hall					
Sunday, Dec. 18, 2016 Topic: Modeling and Numerical Methods					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Zongyan Zhou (Monash University) & Prof. Fei Duan (Nanyang Technological University)					
13:30-13:55	Keynote	244	Fei Duan	Drying Patterns from Nanofluid Droplet Evaporation	Nanyang Technological University
13:55-14:10	oral	185	Min Chai, Kun Luo*, Changxiao Shao, Jianren Fan	An improved conservative level set method for modelling gas-liquid flows	Zhejiang University

14:10-14:25	oral	165	Min Jia*, Zhaozhong Yang, Xiaogang Li, Nayun zhou	Simulation of temperature field in ice crystal temporary plugging technique applied in coalbed methane separate-layer fracturing	SKLOGRGE, Southwest Petroleum University
14:25-14:40	oral	128	Na-Xin Kang, Chenxing Jiang*, Kaijie Li, Zhijun Shuai, Wanyou Li	Numerical Study on Cavitation Evolution and Time-Frequency Characteristics of Pressure Fluctuation in a Centrifugal Pump During the Startup Process	Harbin Engineering University
14:40-14:55	oral	32	Wei Zhang, Huan Wang, Lei Deng, Pengqian Wang, Yuanhang Zhang, Defu Che*	Modeling and analysis on heat sensitivity of parallel tubes at low mass velocity	Xi'an Jiaotong University
14:55-15:10	oral	80	Xianfei Liu*, Guodong Xia, Yeqiang Zhang, Yongning He	Investigation of heat transfer for single-phase and two-phase flow through helical rectangular channel	Zhengzhou University of Light Industry
15:10-15:25	oral	116	Xinglong Shang*, Bofeng Bai	Three-dimensional numerical study of compound droplet motion on a solid surface under shear flow	Xi'an Jiaotong University
15:25-15:40	oral	14	Benan Cai, Yu Weng, Fangfang Cao, Xingchen Qin, Yanyan Wang, Haijun Wang*	A Method of Investigating Thermal Stratification through Solving Inverse Heat Conduction Problem	Xi'an Jiaotong University
15:40-15:50	Tea break				
15:50-16:15	Keynote	175	Zongyan Zhou*, Aibing Yu	Numerical Analysis of Packing and Flow Behaviour of Ellipsoidal Particles	Monash University
16:15-16:30	oral	58	Hao Xiang, Bin Chen*	A 3D Mesoscopic Particle Model for the Formation of Pale Thrombus	Xi'an Jiaotong University
16:30-16:45	oral	83	Ping Liu*, Xuebing Peng, Yuntao Song, Xin Mao	Two-phase flow boiling heat transfer in vertically upward screw tubes under one-sided high heat fluxes	Institute of Plasma Physics Chinese Academy of Sciences
16:45-17:00	oral	28	Biao Zhou, Huixiong Li*, Liangxing Li	Two-Phase Flow Dynamic Research in Micro-Channel of T-groove Shape Dry Gas Seal	Xi'an Jiaotong University
17:00-17:15	oral	25	Kaisong Wu, Maolin Dai*, Yudan Jia, Jiyang Rao, Qingping Li, Hui Dong, Heng Xuan	Flowing Separation of Hydrate Slurry in Vertical Helically Coiled Tube	SKLOGRGE, Southwest Petroleum University
17:15-17:30	oral	17	Pengwei Chen, Yanzhong Li*	A Research of Heat Transfer Characteristics of Superheated Air Condensation on a Horizontal Cryogenic Tube	Xi'an Jiaotong University
17:30-17:45	oral	61	Yingjie Wang*, Jianjun Liu, Jiannan Yue, Yao Wang	Numerical Investigation of effect of interlays on cavern flow field in salt rock gas storage construction period	SKLOGRGE, Southwest Petroleum University
17:45-18:00	oral	26	Tianjing Wang, Yueshe Wang*	Numerical investigation of multiphase flow and well blowout caused by acid gases invading in wellbore	Xi'an Jiaotong University
18:30-20:00	banquet				
SEESION 6					
Pium Hall					
Sunday, Dec. 18, 2016		Topic: Bubble and Droplet			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Xiaogang Yang (University of Nottingham Ningbo University Park) & Prof. Jianfu Zhao (Chinese Academy of Sciences)					



13:30-13:55	Keynote	150	Jianfu Zhao*, Ke Wu, Hui-Xiong Li, Kai Li	Bubble Behavior and Heat Transfer in Microgravity Pool Boiling	Chinese Academy of Sciences
13:55-14:10	oral	193	Xuan Xiao, Han Gao, Xueliang Fan*	Frequency Shift of Single-Layered Graphene Sheet Carrying a Nanoscale Water Droplet	Soochow University
14:10-14:25	oral	177	Long Chen, Jie Zhang, Mingjiu Ni*	The interactive force between a pair of bubbles rising side by side under the influence of magnetic fields	University of Chinese Academy of Sciences
14:25-14:40	oral	148	Jinghan Liu, Yongqing He*	The motion of a floating ferrofluid marble under non-uniform magnetic field	Kunming University of Science and Technology
14:40-14:55	oral	134	Zhibin Wang*, Liejin Guo	Liquid droplet deformation and breakup in turbulent flow of gas well	SKLOGRGE, Southwest Petroleum University
14:55-15:10	oral	122	Tingting Li*, Jun Hu*,Yong Yu*	Experimental study on the pinch-off and penetration distance of submerged gas jet	Beijing Institute of Technology
15:10-15:25	oral	206	Chenglong Tang	Droplet impact on a solid surface with hierarchical roughness	Xi'an Jiaotong University
15:25-15:40	oral	109	Dongbao Wang*, Junfeng Wang, Hailong Liu, Weihang Hu	Experimental investigation of droplet dispersion in a liquid-liquid system under electric field	Jiangsu University
15:40-15:50	Tea break				
15:50-16:15	Keynote	94	Weibin Shi, Xiaogang Yang*	An Improved Bubble Breakup Model Accounting for Variation of Bubble Shapes for CFD Modelling of Gas-Liquid Flows in Bubble Columns	University of Nottingham Ningbo University Park
16:15-16:30	oral	103	Zhengyuan Luo*, Bofeng Bai	Deformation and Dynamics of Viscoelastic Capsules under Shear Flow	Xi'an Jiaotong University
16:30-16:45	oral	96	Feng Ren*, Baowei Song, Haibao Hu	Numerical dyeing for mixing process during the collision of two droplets	Northwestern Polytechnical University
16:45-17:00	oral	79	Liang Zhao, Licheng Sun*, Zhengyu Mo, Jiguo Tang, Liuyun Hu, Guo Xie, Min Du, Hongtao Liu	A visualization research of bubble movement characteristics in a venturi channel	Sichuan University
17:00-17:15	oral	53	Dan Zhang*	Study on Bubble Growth during Static flash Evaporation	Xi'an Jiaotong University
17:15-17:30	oral	45	Hongjun Zhu*, Jiahui You, Honglei Zhao	An experimental investigation of oil spill from a submarine pipe in a shear flow	SKLOGRGE, Southwest Petroleum University
17:30-17:45	oral	74	Jiguo Tang, Licheng Sun, Guo Xie*, Zhengyu Mo, Hongtao Liu	Experimental Study on Transition Processes in Microbubble Emission Boiling	Sichuan University
17:45-18:00	oral	106	Huang Zhang*, Qianfeng Liu	A correction to collision rates of droplets in turbulent flows	Tsinghua University
18:30-20:00	banquet				
SEESION 7					
Lily Hall					
Sunday, Dec. 18, 2016		Topic: Experimental Techniques and Instrumentation			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Daotong Chong (Xi'an Jiaotong University) & Prof. Chaobin Dang (The University of Tokyo)					
13:30-13:55	Keynote	194	Chaobin Dang*, Yuki Yoshinaga, Eiji Hihara	Measurement of Thin Liquid Film Thickness of Two-Phase Flow Inside Mini/Micro Channels by Using Laser Focus Displacement Meter	The University of Tokyo

13:55-14:10	oral	22	Suifeng Zou*, Liejin Guo, Weizhi Liu, Tian Yao, Chen Xie	Temporal and Spatial Correlation of Local Flow and Global Flow Regime in Pipeline-riser and Fast Recognition of Unstable Regime	Xi'an Jiaotong University
14:10-14:25	oral	171	Hongjun Zhu*, Youbo Tang, Songfu Wang	Experimental study on gas-liquid two-phase flow and slug-induced-vibration of a free-hanging flexible riser	SKLOGRGE, Southwest Petroleum University
14:25-14:40	oral	145	Shijing Xu*, Jiazhong Wu, Jingyao Wang, Desheng Ma, Qingjie Liu	Experimental studies of micro-mechanism of ions tuning waterflooding in low permeability reservoirs	Research Institute of Petroleum Exploration & Development
14:40-14:55	oral	59	Gao Xuan, Ri Li*	Local heat transfer of spray cooling on a thin film heater	University of British Columbia
14:55-15:10	oral	111	Liuzhen Ren*, Zhaoyuan Huang, Qinghui Zhang, Haibao Hu	Turbulent drag reduction with homogenous and injected polymer solutions	Northwestern Polytechnical University
15:10-15:25	oral		Ming Su*, Xiao Guo, Gaofeng Zou	Experimental Study on the Effect of H2S/CO2-brine-rock Interaction in Carbonate Reservoir at High Temperature and Pressure	SKLOGRGE, Southwest Petroleum University
15:25-15:40	oral	119	Jiaqiang Jing, Fei Xiao*, Dongrong Wu	Experimental Study of Pre-Film Technology with Slug for Corrosion Inhibitor in Gas Flowline	SKLOGRGE, Southwest Petroleum University
15:40-15:50	Tea break				
15:50-16:15	Keynote	227	Daotong Chong	Pressure Oscillation Caused by Direct Contact Condensation of Submerged Steam Jet	Xi'an Jiaotong University
16:15-16:30	oral	121	Pengman Niu*, Dong Wang, Shuai Wang, Yanyan Cao, Xiaopeng Liu	An optical method for quality measurement of gas-liquid two-phase by phase-separation	Xi'an Jiaotong University
16:30-16:45	oral	71	Jianjun Liu, Yao Wang*, Rui Song, Yue Sun	Discussion of Visual Technique for Seepage Experiment Based on Transparent Rock-Soil Material	SKLOGRGE, Southwest Petroleum University
16:45-17:00	oral	70	Shuai Wang*, Yanyan Cao, Dong Wang	A Flow Measurement Method Using the Radial Differential Pressure	Xi'an Jiaotong University
17:00-17:15	oral	133	Yang Yang*, Dong Wang, Xiaopeng Liu, Yanyan Cao	Using the electromagnetic flowmeter in two-phase flow measurement based on the phase-isolation	Xi'an Jiaotong University
17:15-17:30	oral	65	Xuwei Shi, Xiaoxiao Dong, Chao Tan, Feng Dong*	Oil-water Two-phase Flow Velocity Measurement Based on the Correction of Continuous Wave Ultrasound Doppler Shift	Tianjin University
17:30-17:45	oral	113	Denghui He, Bofeng Bai*	Pressure Recovery Length of V-Cone Flow Meter and Its Application in Wet Gas Measurement	Xi'an University of Technology
17:45-18:00	oral	187	Lei Pang, Yingjuan Shao, Chamin Geng, Wenqi Zhong*	The study of a non-intrusive microwave method to measure the solids flow rate	Southeast University
18:30-20:00	banquet				
SEESION 8					
Tulip Hall					
Sunday, Dec. 18, 2016 Mini Symposium: Clean Coal Technology					
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Geoff Guoxiong Wang (University of Queensland) & Prof. Dengwei Jing (Xi'an Jiaotong University)					
13:30-13:55	Keynote	200	Geoff Wang*, Hui An, Zhigang Zhao	Simulation of fluid flow through coal with the lattice Boltzmann method	University of Queensland

13:55-14:10	oral	186	Chamin Geng, Yingjuan Shao, Lei Pang, Wenqi Zhong*	Influences of Fluidization Condition on Dynamic Solids Circulation in a Dual Circulating Fluidized Bed	Southeast University
14:10-14:25	oral	46	Huaishuang Shao*, Haidong Ma, Yungang Wang, Qinxin Zhao	Experimental Investigation on the Separated Structure Shell and Tube Waste Heat Recovery Boiler	Xi'an Jiaotong University
14:25-14:40	oral	184	Guanwen Zhou, Wenqi Zhong*, Aibing Yu	Kinetics Analysis on Pressurized Pyrolysis of Bituminous Coal	Southeast University
14:40-14:55	oral	153	Huifang Feng, Jingli Sun, Hui Jin, Liejin Guo*	Evolution characteristics of micro-structure during coal gasification in supercritical water	Xi'an Jiaotong University
14:55-15:10	oral	152	Jingli Sun, Huifang Feng, Hui Jin, Liejin Guo*	Structure Analysis of Coal Chars by Raman and FT-IR Spectroscopy in subcritical and supercritical Water	Xi'an Jiaotong University
15:10-15:25	oral	107	Runyu Wang, Hui Jin, Liejin Guo*	Thermodynamic analysis of supercritical water gasification and dechlorination of o-chlorophenol	Xi'an Jiaotong University
15:25-15:40	oral	136	Jingjing Bao*, Licheng Sun, Guo Xie, Hongtao Liu, Zhengyu Mo, Min Du, Jiguo Tang, Hongmin Yang	Aerosol Formation Characteristics in Wet Ammonia Desulfurization Process	Sichuan University
15:40-15:50	Tea break				
15:50-16:15	Keynote	229	Hui Jin*, Liejin Guo, Zhengqun Wu, Xiao Zhao, Jia Chen	Multi-scale investigation on the gasification process of coal particle in supercritical water	Xi'an Jiaotong University
16:15-16:30	oral	123	Xiaolu Chen, Qinxin Zhao*, Zhiyuan Liang, Xin Ma	Investigations on the air preheater ash deposit formation in coal-fired chain boiler	Xi'an Jiaotong University
16:30-16:45	oral	112	Liejin Guo*, Deming Zhang, Jiuyan Zhao	Release of pollutant elements during the supercritical water gasification of coal	Xi'an Jiaotong University
16:45-17:00	oral	104	Jingchun Huang, Yu Qiao*, Minghou Xu	Torrefaction of typical kitchen waste to improve solid fuel qualities	Huazhong University of Science and Technology
17:00-17:15	oral	102	Yingchao Hu, Wenqiang Liu*, Minghou Xu*	Enhanced performance of limestone by industrial waste sludge for post-combustion CO <sub>2</sub> capture	Huazhong University of Science and Technology
17:15-17:30	oral	97	Shu Zhang*, Yiyu Chen, Xiaohui Zeng	Determination of Coalbed Methane Production Based on Rough Set and Fuzzy Clustering	SKLOGRGE, Southwest Petroleum University
17:30-17:45	oral	224	Jikai Huang, Youjun Lu*, Hang Zhang	Bubble Dynamics and Cloud Properties in a Fluidized Bed with a Single Jet	Xi'an Jiaotong University
17:45-18:00	oral	210	Haiyang Guo, Hongfang Gu, Haijun Wang, Qing Zhou	Research on optimization of wind-break structures for indirect air-cooling tower group under high wind speed	Xi'an Jiaotong University
18:30-20:00	banquet				
SEESION 9					
Osmanthus Hall					
Monday, Dec. 19, 2016		Topic: Heat and Mass Transfer (2)			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Ruina Xu (Tsinghua University) & Prof. Sunny Li (University of British Columbia)					
8:15-8:40	Keynote	245	Xuan Gao, Sunny Li	Study of Spray Cooling: Single Drop Impact and Spray Impingement	University of British Columbia
8:40-8:55	oral	253	Jiameng Tian, Bin Chen, Dong Li, Zhifu Zhou	Similarity of Dynamic Heat Flux between Different Cryogens during Transient Spray Cooling	Xi'an Jiaotong University

8:55-9:10	oral	60	Yun Wang, Kuanghan Deng, Junmei Wu*, Guanghui Su, Suizheng Qiu	Experimental study on Al2O3/H2O nanofluid flow boiling critical heat flux under different pressures	Xi'an Jiaotong University
9:10-9:25	oral	57	Wei Tang, Hongtao Liu*, Guo Xie, Zhengyu Mo, Min Du, Jiguo Tang, Licheng Sun	A numerical investigation on heat dissipation features of heat sinks with self-similarity structure	Sichuan University
9:25-9:40	oral	55	Hongbing Hu, Yajun Deng, Bo Yu*, Lei Hou, DongLiang Sun	Numerical study of natural gas releases from ruptured pipeline in complex terrain Based on Google Earth and GIS	China University of Petroleum
9:40-9:55	oral	172	Shuyan Ye*, Liejin Guo, Qiang Xu, Yanshuang Chen, Qiyu Chen	Investigation on Pressure Wave Induced by Supersonic Steam Jet Condensation in Water Flow in a Vertical Pipe	Xi'an Jiaotong University
9:55-10:10	oral	86	Chenyang Xue, Xiaogang Yang*, Guang Li, Yong Ren	Micro-mixing of turbulent shear flow in a Taylor-Couette reactor with non-circular cross-sectional inner cylinder	University of Nottingham Ningbo University Park
10:10-10:20	Tea break				
10:20-10:45	Keynote	246	Ruina Xu	Fundamental Studies of CO <sub>2</sub> Transportation, Geological Storage and Utilization: Two Phase Flow and Heat Mass Transfer in Micro Porous Media	Tsinghua University
10:45-11:00	oral	36	Krit Ruengpayungsak, Khwanchit Wongcharee, Petpices Eiamsa-Ardpongjet Promvonge, Smith Eiamsa-Ard*	Heat Transfer and Friction Factor Characteristics in a Round Tube with Combined Circular-Ring and Twisted-Tape Inserts	Mahanakorn University of Technology
11:00-11:15	oral	33	Chao Yao, Huixiong Li*, Yuqing Xue, Chenyu Hao	A new correlation of frictional pressure drop for air-water two-phase flow in vertically-downward tubes	Xi'an Jiaotong University
11:15-11:30	oral	49	Vichan Kongkaitpaiboon, Surasak Kunlabud, Khwanchit Wongcharee, Varesa Chuwattanakul, Smith Eiamsa-Ard*	Study on Convective Heat Transfer and Fluid Flow in Twisted Tube Inserted with Twisted Tapes	Mahanakorn University of Technology
11:30-11:45	oral	31	Weiwei Kong*, Zhang Zhi	Finite element analysis of thermal stress in high temperature and high pressure gas well	SKLOGRGE, Southwest Petroleum University
11:45-12:00	oral	48	Anucha Saysroy, Varesa Chuwattanakul, Anotai Suksangpanomrung, Smith Eiamsa-Ard	Turbulent flow and heat transfer in tubes equipped with alternate axis square-cut twisted tapes	Mahanakorn University of Technology
12:00-12:15	oral	23	Xingchen Qin, Yanyan Wang, Fangfang Cao, Hongzhi Li, Hongfang Gu, Haijun Wang*	Parameters Optimization of Supercritical Carbon Dioxide Recompression with Reheating Cycle for Next-Generation Nuclear Reactor	Xi'an Jiaotong University
12:15-13:30	lunch break / closing				
SEESION10					
Pium Hall					
Monday, Dec. 19, 2016		Topic: Applications of Multiphase Flow			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Zhiguo Qu (Xi'an Jiaotong University) & Prof. Prodanovic Vladan (University of British Columbia)					

8:15-8:40	Keynote	196	Guedia Gilles, Prodanovic Vladan*, Militzer Matthias	Effect of Water Flow Rate and Temperature on Transient Boiling Heat Transfer during Bottom Jet Impingement on Stationary Plates	University of British Columbia
8:40-8:55	oral	223	Liangxing Li*, Liubo Kong, Xumao Zou, Huasheng Wang	Study on the Pressure Drops of Single/Two-Phase Flows through a Packed Bed with Horizontal Stratification	Xi'an Jiaotong University
8:55-9:10	oral	82	Xiande Fang*, Yuliang Yuan, Qi Wu, Anyi Xu, Lu Tian	Evaluation analysis of saturated flow boiling heat transfer correlations	Nanjing University of Aeronautics and Astronautics
9:10-9:25	oral	252	Yi Pan, Qiong Wang, Qiuyue Wang	Study on the formation of artificial gas cap during N <sub>2</sub> immiscible flooding in fault block oil reservoir	SKLOGRGE, Southwest Petroleum University
9:25-9:40	oral	63	Weiling Liu, Chao Tan*, Feng Dong	Characteristic Analysis of Air-water Two-Phase Flow by Wire-Mesh Sensor	Tianjin University
9:40-9:55	oral	168	Ge Chen, Zhiguo Qu*	Experimental investigation on the performance of cryogenic loop heat pipe with crystal impurities	Xi'an Jiaotong University
9:55-10:10	oral	87	Qifeng Jiang, Weibin Zhang*, Yves Brunet, Xiaobing Liu, Min Du, Jingjing Bao	Experimental Investigation of Suspension Microstructure out of Stokes Regime	Xihua University
10:10-10:20	Tea break				
10:20-10:45	Keynote	247	Jianchun Guo	Experimental and Numerical Study of Complex Flow in Channel Fracturing	SKLOGRGE, Southwest Petroleum University
10:45-11:00	oral		Destina Godwin Ekekeh, Guo Xiao	Case Study in Nigeria/China: Efficiency of Artificial Lift Techniques on Multiphase Flow in Petroleum Reservoirs	SKLOGRGE, Southwest Petroleum University
11:00-11:15	oral	30	Xingchen Qin, Li Lin, Yanyan Wang, Fangfang Cao, Hongfang Gu, Haijun Wang*	The Theoretical and Experimental Research of New Steam-water Separator with Corrugated Plates	Xi'an Jiaotong University
11:15-11:30	oral	211	Yan Lin Zhao, Zihua Zeng, Shaoheng Ge, Jun Yao*, Shigang Dong, Ning Li	Numerical and Experimental Investigation of Erosion by Liquid-Solid Impinging Jet	China University of Petroleum-Beijing
11:30-11:45	oral	29	Gang Liu, Yueshe Wang*	Dynamic behavior of cantilevered pipe system conveying two-phase slug flow	Xi'an Jiaotong University
11:45-12:00	oral	5	Hongtao Li, Ruoming Chen, Xiaojun Li, Li Zhu, Jibin Zhao, Yingfeng Meng*, Gao Li*	Pressure wave propagation and attenuation characteristics in wellbore gas-liquid two phases flow	CNPC Xibu Drilling Engineering Company Limited
12:00-12:15	oral	156	Jialing Xu, Hui Jin, Zening Cheng, Changsheng Ren, Liejin Guo*	The Characteristics of Supercritical Water Gasification of Crude Oil	Xi'an Jiaotong University
12:15-13:30	lunch break / closing				
SEESION 11					
Lily Hall					
Monday, Dec. 19, 2016		Topic: Alternative and Renewable Energy (2)			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Prof. Ziping Feng (Chinese Academy of Sciences) & Prof. Jinwen Shi (Xi'an Jiaotong University)					

8:15-8:40	Keynote	248	Jinwen Shi	Novel ABO3-based Materials: Tailored Components and Structures towards Photocatalytic H2 Evolution under Visible-light Irradiation	Xi'an Jiaotong University
8:40-8:55	oral	159	Youyou He, Liejin Guo*, Hui Jin, Yunan Chen, Deming Zhang, Zening Cheng	Study on hydrogen production in supercritical water of landfill leachate treatment	Xi'an Jiaotong University
8:55-9:10	oral	155	Wen Cao, Changqing Cao, Liejin Guo*, Xiangdong Yao	Assessment of sugarcane bagasse gasification in supercritical water	Xi'an Jiaotong University
9:10-9:25	oral	154	Jiajing Kou, Li Wang, Hui Jin, Liejin Guo*	Hydrogen production by supercritical water gasification of oil-containing wastewater with modified Ni/ZrO2 catalysts	Xi'an Jiaotong University
9:25-9:40	oral	44	Lele Jiang, Airon Li*, Jingfan Xu	Effects of SDS and SDBS on CO2 hydrate formation induction time, storage capacity and stability	SKLOGRGE, Southwest Petroleum University
9:40-9:55	oral	130	Guo Xie*, Jiguo Tang, Jingjing Bao, Licheng Sun, Zhengyu Mo	Mass and heat transfer characteristics of Tubular Solar Still under vacuum condition	Sichuan University
9:55-10:10	oral	137	Zhi Zhang, Han Wang*	Casing Design Method Considering Trapped Annulus Pressure during Multi-stage Hydraulic Fracturing of Shale Gas Horizontal Well	SKLOGRGE, Southwest Petroleum University
10:10-10:20	Tea break				
10:20-10:45	keynote	249	Ziping Feng, Wenji Song, Shili Lin, Jie Lv	Hybrid Energy Storage Technology for Micro Grid and Cogeneration System	Guangzhou Institute of Energy Conversion, Chinese Academy of Sciences
10:45-11:00	oral	115	Wei Tian*, Hui Hu	Interference between Turbulent Wind Flow and Wind Turbine Wake over Typical Complex Terrains	Shanghai Jiao Tong University
11:00-11:15	oral	144	Jun Hu, Xueqing Wang, Honghui Yang, Liejin Guo*	Strong pH Dependence of Hydrogen Production with Glucose in Rhodobacter sphaeroides	Xi'an Jiaotong University
11:15-11:30	oral	98	Zhihui Zhang, Bofeng Bai, Tianshou Zhao*	Porous PTFE coated with a thin Nafion film as composite membrane for all vanadium redox flow battery	Xi'an Jiaotong University
11:30-11:45	oral	124	Baowen Zhang, Yuan Lei, Bofeng Bai*, Tianshou Zhao	Two-dimensional Coupled Heat/mass Transfer and Electrochemical Model for Stacked Vanadium Redox Flow Batteries	Xi'an Jiaotong University
11:45-12:00	oral	230	Haijuan Jia,Yupeng Yang, Hongtan Liu, Liejin Guo*	Systematic study on the effects of operation parameters on the performance of open cathode PEM fuel cells	Xi'an Jiaotong University
12:00-12:15	oral	180	Jianbing Huang*, Li Wang, Chao Zhu, Hui Jin	Catalytic Gasification of Guaiacol in Supercritical Water for Hydrogen Production	Xi'an Jiaotong University
12:15-13:30	lunch break / closing				
SEESION 12					
Tulip Hall					
Monday, Dec. 19, 2016		Topic: Micro-Nanoscale Multiphase Flow and Others			
Time	Activity	No.	Presenter	Title of the presentation	Affiliation
Chair(s): Dr. Chenglong Tang (Xi'an Jiaotong University) & Dr. Yingwei Wu (Xi'an Jiaotong University)					
8:15-8:40	Keynote	250	Chenglong Tang	Dynamics of droplet interactions: Regime diagram, mixing pattern and prospective application in hypergolic ignition	Xi'an Jiaotong University

8:40-8:55	oral	201	Xi Lu*, Qian Liu	Understanding Molecular Interactions and Adsorption Behaviors of Asphaltenes at Oil/Water Interfaces	Petroleum Exploration and Production Research Institute
8:55-9:10	oral	120	Boyao Wen, Bofeng Bai*	Migration of ions from the water phase to the oil-water interface	Xi'an Jiaotong University
9:10-9:25	oral	198	Dengwei Jing*, Le Sun, Junfeng Jiang	Study of the physicochemical properties of methane hydrate formed in microemulsion	Xi'an Jiaotong University
9:25-9:40	oral	166	Jiayuan Ji, Lingling Zhao*	Molecular Dynamics Simulations of Supercritical CO2 and Brine Interfacial Tension with Salt Effects	Southeast University
9:40-9:55	oral	202	Dongxing Song, Yang Yang, Dengwei Jing*	The effect of rotating Brownian motion of non-spherical nanoparticles on thermal conductivity of colloid suspension: a case study	Xi'an Jiaotong University
9:55-10:10	oral	205	Jiaying Luo, Dongxing Song, Dengwei Jing*	Mechanism of Aggregation and Crash in Nanofluids	Xi'an Jiaotong University
10:10-10:20	Tea break				
10:20-10:45	Keynote	251	Yingwei Wu	Experimental Research on the Thermal-Hydraulic Characteristics of Single Phase and Boiling Two Phase Sodium Flowing in Annulin	Xi'an Jiaotong University
10:45-11:00	oral	135	Wenyan Zhu, Xuan Xiao, Xueliang Fan*	Experimental Investigation of Defrosting on Vibrating Super-Hydrophobic Surface	Soochow University
11:00-11:15	oral	34	Kai Wang, Yueshe Wang*, Wenguang Nan, Chenpei Li	Experimental Study on Bubble Dynamics of Gas-Liquid Two-Phase Flow in Capillary Vertical Tubes	Xi'an Jiaotong University
11:15-11:30	oral	11	Na Wei*, Yingfeng Meng, Wantong Sun, Shouwei Zhou, Gao Li, Ping Guo, Qingping Li, Kanjicai Dong	Sensitivity analysis of flow in marine NGH reservoir drilling	SKLOGRGE, Southwest Petroleum University
11:30-11:45	oral	51	Qi Han, Tao Zhang*, Jianchun Guo	Study of proppant transport behavior in shale fracture networks	SKLOGRGE, Southwest Petroleum University
11:45-12:00	oral	143	Fang Wang*, Lixing Zhou	A two-phase SGS model for two-fluid LES of two-phase combustion	Beihang University
12:00-12:15	oral	140	Ke Wang*, Weimin Ma	Critical thickness of a thin liquid film under shearing and thermal influence	China University of Petroleum
12:15-13:30	lunch break / closing				
Poster Part 1: Multiphase flow and heat & mass transfer (Saturday, Dec. 17, 2016, 15:25-16:25 )					
No.	Authors			Title of the presentation	Affiliation
169	Qian Deng, Yueshe Wang*			Study of the Characteristics of the Pressure Drop and the Valve Opening of the Squirrel-cage Flow Regulating Valve	Xi'an Jiaotong University
99	Chengzhen Sun, Bofeng Bai*			Oil and Water Wettability of a Charged Silicon Dioxide Surface	Xi'an Jiaotong University
68	Zhengqiang Liu, Shihong Zhang, Xin Nie*, Huiqing Jiang, Yunjie Zhao, Dong Yang			Hydrodynamic Analysis and Metal Temperature Calculation for the Water Wall of a 1000MW Ultra Supercritical $\pi$ -type boiler	State Power Investment Corporation Pingdingshan
66	Zhi Ye, Zengwang Li, Guangxun Zhao, Wanyu Liu*, Mofeng Qu, Dong Yang			Introduction to A Computer Program for Simulation of Ultra Supercritical Boiler Start-up Process	Huadian Electric Power Research Institute

91	Rui Wang, Tao Yang, Bin Chen*, Zhifu Zhou, Yechun Wang	Influence of nozzle type on cryogen spray cooling for dermatologic laser surgery	Xi'an Jiaotong University
47	Bingqing Chen, Yueshe Wang* Renyang He	Study on the Location Prediction of Pipeline Corrosion Based on the Determination of Water Accumulation	Xi'an Jiaotong University
42	Qiang Xu, Liejin Guo*, Liang Chang	Pressure oscillation mechanisms under various steam jet condensation regimes in water pipe flow	Xi'an Jiaotong University
39	Zhibin Wang*, Liejin Guo	Experiment Study on Critical Gas Velocity of Liquid loading Onset in Inclined Coiled Tubing	SKLOGRGE, Southwest Petroleum University
35	Prachaya Samruaysin, Wayo Changcharoen, Pongjet Promvonge, Smith Eiamsa-Ard*	Thermal Enhancement in a Heat Exchanger Tube Equipped with Rectangular-Cut Dual Twisted-Tapes	Mahanakorn University of Technology
40	Qiuyang Zhao, Liejin Guo*, Zujie Huang, Lei Chen	Experiment Study of Supercritical Water Flooding	Xi'an Jiaotong University
64	Guangzhi Fu, Chao Tan*, Feng Dong	Adaptive Estimation on Water Holdup of Water-Continuous Oil-Water Two-Phase Flow	Tianjin University
207	Qiyu Chen, Pengfei Chen, Kang Chen, Liejin Guo*	Numerical investigation on heat transfer enhancement of nitrogen in a micro fin tube	Xi'an Jiaotong University
158	Chenpei Li, Yueshe Wang*, Haijun Wang	Numerical analysis of Heat Transfer in Micro-channel Air Precooler	Xi'an Jiaotong University
117	Pengkai Wei, Linan Zhao, Dong Wang*	Numerical simulation study on the efficiency of different inner tube structures based on the phase-isolation	Xi'an Jiaotong University
214	Hao Yu*, Yingwei Wu, Suizheng Qiu	Numerical and Experimental Investigation of Dispersed Flow Film Boiling (DFFB) Heat Transfer	Xi'an Jiaotong University
129	Kunpeng Zhao, Bofeng Bai*	Experimental Study of Gas-Liquid Counter Flow in Plunger Lift System	Xi'an Jiaotong University
157	Ruichao Han, Wenxue Zhou, Bofeng Bai, Liang Zhao, Zhanyang Chen, Jian Li, Yufu Zhang, Yunhao Zhao*	Analysis and Comparison Of heat Exchanger Performance Test Standard Of ASME,EN and GB	Heat Exchangers Sub Committee of China Standardization Committee on Boilers and Pressure Vessels
226	Yong Li, Jinshi Wang*, Kai Xia, Nana Chen, Junjie Yan	Marangoni condensation on a horizontal surface: condensate droplets movement	Xi'an Jiaotong University
237	Weizhi Liu, Liejin Guo*, Suifeng Zou, Qiang Xu	Experimental investigation on pressure fluctuation characteristics of gas-liquid flow in an S-shaped riser	Xi'an Jiaotong University
54	Guojie Li, Bin Chen*	Stretching Simulation of Red Blood Cell Based on Unstructured Grid	Xi'an Jiaotong University
233	Yousen Zhang, Jianli Zhang*, Huixiong Li, Qingwei Yang, Biao Zhou	Study of the Pressure Distribution on the Outside Surface of Horizontal Tubes under Falling Film Conditions	Shenhua Guohua (Beijing) Electric Power Research Institute Co. Ltd.
222	Yuwei Zhou, Hang Guo*, Fang Ye, Chongfang Ma	Dynamic Response of a Thin Film Sensor Simultaneously Measuring Temperature	Beijing University of Technology
118	Jing Li*, Zhi Zhang, Weiwei Kong	Finite element simulation of hydrogen diffusion in $\alpha$ -Fe steel	SKLOGRGE, Southwest Petroleum University



225	Jikai Huang, Youjun Lu*	Solids Mixing and Bubble Properties in a Supercritical Water Fluidized Bed: a Numerical Analysis	Xi'an Jiaotong University
<b>Poster Part 2: Alternative and Renewable Energy (Saturday, Dec. 17, 2016, 15:25-16:25)</b>			
234	Yupeng Yang, Haijuan Jia, Xu Zhang, Liejin Guo*, Hongtan Liu	Degradation mitigation effects of pressure swing in PEMFCs with dead-ended anode	Xi'an Jiaotong University
231	Lingyun He, Wu Zhou, Dongping Cai, Shaohua Shen*	Pulse laser deposited NiOx/n-Si photoanodes and its photoelectrochemical performance	Xi'an Jiaotong University
105	Xiaohe Liu, Fan Du, Qingyun Chen*	An effective self-driven PFC-PEC hybrid system for hydrogen generation from organic substance	Xi'an Jiaotong University
220	Fengfeng Liu, Liejin Guo*, Hongtan Liu	The mechanism study for the reverse voltage during polymer electrolyte fuel cell startup at constant current	Xi'an Jiaotong University
219	Xiangjiu Guan, Menghua Sun, Cheng Cheng, Liejin Guo*	Dye-sensitized SrTiO <sub>3</sub> for Efficient Noble-metal-free Hydrogen Production under Visible-light Irradiation	Xi'an Jiaotong University
218	Xu Guo, Yubin Chen, Liejin Guo*	Highly Efficient and Stable Photocatalytic Hydrogen Generation from Quantum Confined CdS/ZnO Nanoheterostructures	Xi'an Jiaotong University
213	Fei Xue, Wenlong Fu, Maochang Liu, Liejin Guo*	Intergrowth Phase Junction in Cd <sub>0.9</sub> Zn <sub>0.1</sub> S Solid-Solution Nanotetrapods with Enhanced Photocatalytic Properties for Visible-light-driven H <sub>2</sub> Evolution	Xi'an Jiaotong University
217	Zhixiao Qin, Xue Fei, Yubin Chen, Liejin Guo*	Ternary Ni <sub>2</sub> P/Cd <sub>0.9</sub> Zn <sub>0.1</sub> S/Graphitic Carbon Nitride Nanocomposites for Enhanced Solar Photocatalytic Hydrogen Production Activity	Xi'an Jiaotong University
170	Juanwen Chen, Liejin Guo*, Xiaowei Hu, Jinfeng Du	Bubble interaction between activated nucleation sites during photoelectrocatalysis water splitting on nanorod arrays TiO <sub>2</sub> photoelectrode	Xi'an Jiaotong University
89	Cheng Cheng, Jinwen Shi, Liejin Guo*	One-pot preparation of WO <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> for enhanced photocatalytic H <sub>2</sub> production under visible-light irradiation	Xi'an Jiaotong University
92	Shichao Zong, Jinwen Shi, Liejin Guo*	Ag <sub>2</sub> SO <sub>4</sub> -based ion-exchange preparation of novel Ag <sub>0.5</sub> La <sub>0.5</sub> TiO <sub>3</sub> for photocatalytic O <sub>2</sub> evolution	Xi'an Jiaotong University
93	Xiaoyang Feng, Yubin Chen, Liejin Guo*	Selective synthesis of p-type CuInS <sub>2</sub> and n-type CuIn <sub>5</sub> S <sub>8</sub> film from In <sub>2</sub> S <sub>3</sub> precursor for efficient photoelectrochemical water splitting	Xi'an Jiaotong University
146	Yang Zhang, Honghui Yang, Jun Hu, Liejin Guo*	Enhanced photo-fermentative hydrogen production performance of Rhodospirillum rubrum by overexpressing b <sub>2</sub> subunits of F <sub>0</sub> F <sub>1</sub> -ATPase	Xi'an Jiaotong University
216	Changqing Cao*, Lichao Xu, Liejin Guo, Hui Jin	Supercritical water gasification of black liquor at high temperatures for maximum hydrogen production	Xi'an Jiaotong University
239	Jinwen Shi*, Cheng Cheng, Liejin Guo	Porous Cr <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> Composites: One-pot preparation and enhanced visible-light-driven photocatalytic H <sub>2</sub> evolution	Xi'an Jiaotong University
254	Liejin Guo, Jia Chen	A novel distributed energy system based on supercritical water gasification of coal for hydrogen and steam co-generation	Xi'an Jiaotong University

101	Kai Zhang, Kaiwen Wan, Fan Du, Qing-Yun Chen*	Co-deposition of CuO/ZnO for enhanced photoelectrochemical performance under visible-light irradiation	Xi'an Jiaotong University
173	Yue Wu, Liejin Guo, Hui Jin*	Molecular simulation on catalytic gasification of key intermediates in supercritical water	Xi'an Jiaotong University
88	Yazhou Zhang, Jinwen shi, Liejin guo*	Oxynitride LaTiO <sub>2</sub> N photocatalyst combining with Co <sub>3</sub> (OH) <sub>2</sub> (HPO <sub>4</sub> ) <sub>2</sub> for enhanced water oxidation under visible light	Xi'an Jiaotong University
90	Jiangtao Feng, Guorui Yang*, Ling Wang, Jianan Wang, Wei Yan*	Hierarchically Heterostructured Cd <sub>1-x</sub> Zn <sub>x</sub> S/TiO <sub>2</sub> : Synthesis and Improved Photocatalytic Activity	Xi'an Jiaotong University