



福州大学

*2017 Catalytic Materials and
Catalysts workshop*

Congress program

Oct 11-13, 2017, Fuzhou, China



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Meeting Organization

Organization

College of Chemical Engineering, Fuzhou University

Meeting Place

Qishan International Conference Center, Fuzhou, Fujian (in the Qishan Forest Hot Spring Resort, Tel. +86 0591-22817773)

Conference Committee

Chairman: Prof. Xiaojun Bao

Members: Prof. Pei Yuan

Prof. Haibo Zhu

A/Prof. Zhengshuai Bai

A/Prof. Tinghai Wang

Lecturer: Yuanyuan Yue

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Meeting Notes

Traffic Guide



1. Fuzhou Changle International Airport to Qishan International Conference Center of Fuzhou

- (1) **BUS:** Take the **Airport Bus of Jinshan Zhengxiang Square Line** to Jinshan Zhengxiang Square Station, walk 20 meters to Pushangdadao Station, and take **171 bus**, then get off at Qingshan Resort Station, and walk to the end (about 150 meters).
- (2) **TAXI:** about 190 yuan (for reference only, not as a basis for payment).

2. Fuzhou Railway Station to Qishan International Conference Center of Fuzhou

- (1) **BUS:** Walk to Fuzhou Railway Station, and take the **subway line 1** (Fuzhou South Railway Station Direction) to Nanmendou Station (C exit), then walk 430 meters to Wushan Road Station, and take **171 bus**, then get off at Qingshan Resort Station, and walk to the end (about 150 meters).
- (2) **TAXI:** about 100 yuan (for reference only, not as a basis for payment).

3. Fuzhou South Railway Station to Qishan International Conference Center of Fuzhou

- (1) **BUS:** Walk to Fuzhou South Railway Station, and take the **subway line 1** (Xiangfeng Direction) to Nanmendou Station (C exit), then walk 430 meters to Wushan Road Station, and take **171 bus**, then get off at Qingshan Resort Station, and walk to the end (about 150 meters).
- (2) **TAXI:** about 90 yuan (for reference only, not as a basis for payment).

Hotel Service

Dining place: restaurant

Tips

1. Please attend the academic report and the organizer's activities in accordance with the schedule.
2. During the meeting, please turn the mobile phone off or mute.
3. Please take care of your own property, especially valuables.
4. Please pay attention to safety and sunscreen when going out.
5. Have any questions, please contact the conference group.

Schedule

Date Oct. 11, 2017 (Wednesday) to Oct. 13, 2017 (Friday)

Meeting Place Qishan International Conference Center, Fuzhou, Fujian

Date	Time	Content	Place
Oct. 11	All day	Register	Qishan International Conference Center
Oct. 12	07:30	Breakfast	Restaurant
	08:00 -08:15	Opening Ceremony	Xianghe Hall
	08:15-08:30	Group Photo	
	08:30-10:00	Lectures	
	10:00-10:30	Coffee Break	
	10:30-11:45	Lectures	
	11:45-14:00	Lunch & Midday Rest	Restaurant
	14:00 -16:00	Lectures	Xianghe Hall
	16:00-16:30	Coffee Break	
	16:30-18:00	Lectures	
	18:00	Dinner	
Oct. 13	08:00	Breakfast	Restaurant
	08:30 -10:00	Lectures	Xianghe Hall
	10:00-10:30	Coffee Break	
	10:30-11:45	Lectures	
	11:45-14:00	Lunch & Midday Rest	Restaurant
	14:00 -18:00	Visit Fuzhou University	
	18:00	Dinner	

Lectures Overview

Oct. 12, 2017 (Thursday)

Topic: Nano Catalysis & Characterization

Host: Pei Yuan, Jizi Liu

Date	Reporter	Work Unit	Title
08:30-09:00	<i>Chengzhong Yu</i>	The University of Queensland	nanoparticles for delivery
09:00-09:30	<i>Jin Zou</i>	The University of Queensland	Understanding nanomaterials using electron microscopy
09:30-10:00	<i>Jian Liu</i>	Dalian Institute of Chemical Physics, Chinese Academy of Sciences	Design micro/nanoreactor: from concept to practical applications
10:00-10:30	Coffee Break		
10:30-10:45	<i>Kun Zheng</i>	Beijing University of Technology	Research progress and applications on catalytic materials of environmental Cs-corrected TEM
10:45-11:00	<i>Jizi Liu</i>	Nanjing University of Science and Technology	Performance tuning via defects introducing
11:00-11:15	<i>Jizhi Zhou</i>	Shanghai University	Activation of peroxide by intercalation in layered double hydroxide
11:15-11:30	<i>Guang Han</i>	Chongqing University	Scalable solution synthesis of SnSe nanomaterials for thermoelectric applications
11:30-11:45	<i>Fujian Liu</i>	Fuzhou University	Green and controllable preparation of functional nanoporous materials and their applications in the areas of adsorption and heterogeneous catalysis
11:45-14:00	Lunch & Midday Rest		

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☞ **Tips: Please copy the PPT to the venue before 8:30.**

Lectures Overview

Oct. 12, 2017 (Thursday)

Topic: Catalyst Design

Host: Wenshuai Zhu, Ruixia Liu

Time	Reporter	Work Unit	Title
14:00-14:30	Jie Fan	Zhejiang University	Heterogeneous catalysis for selective oxidation: catalyst fast exploration and understanding the active sites
14:30-15:00	Wenshuai Zhu	Jiangsu University	Gas-exfoliated boron nitride nanosheets for enhanced aerobic oxidative desulfurization
15:00-15:30	Jian Liu	China University of Petroleum, Beijing	Catalytic combustion of diesel soot
15:30-16:00	Ruihu Wang	Fujian Institute of Research on the Structure of Matter, Chinese Academy of Sciences	Ionic organic polymers for heterogeneous catalysis
16:00-16:30	Coffee Break		
16:30-17:00	Hongtao Liu	Beijing University of Chemical Technology	A facile strategy to synthesize hydrothermally stable mesoporous aluminosilicates with significantly decreased organic template
17:00-17:15	Lu Zhou	Nanjing Tech University	Methane cracking to make hydrogen and carbon nano material
17:15-17:30	Ruixia Liu	Institute of process engineering, Chinese Academy of Sciences	Green catalysis process based on ionic liquids
17:30-17:45	Yin Chen	Central South University	A study on the single-site tantalum catalysis center on the surface
17:45-18:00	Haibo Zhu	Fuzhou University	Catalytic conversion of light alkanes to olefins
18:00	Dinner		

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☞ **Tips: Please copy the PPT to the venue before 14:00.**

Lectures Overview

Oct. 13, 2017 (Friday)

Topic: Energy Catalysis & Patent

Host: Haibo Zhu, Liang Zhou

Time	Reporter	Work Unit	Title
08:30-09:00	<i>Xiangdong Yao</i>	Griffith University	Defect mechanism for electrocatalysis
09:00-09:30	<i>Dongjiang Yang</i>	Qingdao University	Seaweed-based synthesis of nanostructures for multiple energy storage
09:30-10:00	<i>Liang Zhou</i>	Wuhan University of Technology	Silicon oxides: a promising family of high-capacity anode materials for lithium-ion batteries
10:00-10:30	Coffee Break		
10:30-10:45	<i>Hong Wang</i>	Nankai University	Nitrogen-doped porous carbon membranes for energy conversion
10:45-11:00	<i>Hao Liu</i>	Shanghai University	Porous carbon based composites for energy storage and conversion
11:00-11:15	<i>Hua Yu</i>	The University of Queensland	Potentials and challenges towards application of perovskite solar cells
11:15-11:30	<i>Guangfeng Wei</i>	Tongji University	Theoretical studies of Pt based transition metal catalysts: from static structures to dynamic structures
11:30-11:45	<i>Jiawei Tang</i>	Hui Ye Law Firm	A fundamental introduction of patent systems and PCT application
11:45-14:00	Lunch & Midday Rest		

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Tips: Please copy the ppt to the venue before 8:30.

Fuzhou University

Fuzhou University, founded in 1958, is one of the national key universities that selected into the “211 Project”, a Chinese government programme for the 21st century to support 100 selected universities for their further rapid development. Since its establishment, Fuzhou University has developed into a key comprehensive university in Fujian Province, giving priority



to engineering courses and also enjoying a reputation for excellence in other fields including sciences, economics, management, liberal arts, law, arts and design, etc.

Now Fuzhou University covers more than 333 hectares, including several campuses such as Yishan campus, Qishan campus, Tongpan campus and the School of Art and Design in Xiamen. The main running campus is located in Qishan campus of the University Town of Fuzhou Region. There are 19 schools in Fuzhou University mainly for undergraduate education and two independently operated colleges- Zhicheng College and Yangguang College. There are 4 post-doctoral research stations, 9 doctoral degree programmes for the first-rank disciplines, 54 doctoral degree programmes for the second-rank disciplines, 29 master’s degree programmes for the first-rank disciplines and 168 master’s degree programmes for the second-rank disciplines and 11 professional degree authorization stations.

Fuzhou University has been approved by the Ministry of Education to offer undergraduate and postgraduate programmes to students from Hong Kong, Macao, Taiwan regions and foreign countries. At present, there are about 50,000 students in Fuzhou University, including about over 5,200 doctoral and master’s degree seekers.

Fuzhou University has been taking great efforts to develop the cooperation and exchange. The favorable collaborative relationship has been established with more than 20 universities in different countries, such as the United States, the United Kingdom, Germany, France, Russia, Japan, South Korea and so on. Fuzhou University has become an important window of scientific, academic, educational and cultural exchanges in Fujian Province.

The College of Chemical Engineering

The College of Chemical Engineering of Fuzhou University was founded on February 27, 2014 by Fuzhou University in conjunction with People's Government of Quanzhou Quangang District and Fujian Petrochemical Group. The College has departments separately based in Qishan campus and Quangang campus.

History

The College has a long history, dated back to 1958 when the Department of Chemical Engineering was first founded. In 1961, Mr. Lu Jiayi, the celebrated chemist, former Vice Chairman of National People's Congress and President of Chinese Academy of Sciences, joined the department and established the Department of Chemistry and Chemical Engineering together with the professors transferred from Xiamen University as its backbone. The department was divided into the Department of Chemistry and Department of Chemical Engineering in 1984 to meet the needs of disciplinary development. The two departments merged again to adapt to China's higher education reform, and thus the School of Chemistry and Chemical Engineering was established on May 18, 2001. Later, the University founded the College of Chemical Engineering on the basis of the Department of Chemical Engineering and has since integrated itself into the development of the Western Taiwan Straits Economic Zone.

Departments and Programs

The college offers diversified undergraduate and graduate programs, including a national "Project 211" key discipline (New Technology of Clean Chemical Engineering), a Innovation Platform for Provincial Outstanding Discipline (Energy-Saving, Environmental Protection and Industrial Catalysis Research), a provincial key discipline (Chemical Engineering and Technology), the postdoctoral research center (Chemical Engineering and Technology), the doctoral program for the "Tier One" discipline (Chemical Engineering and Technology), 6 doctoral programs for "Tier Two" disciplines (Chemical Engineering, Chemical Technology, Industrial Catalysis, Biological and Pharmaceutical Engineering, Environmental Chemical Engineering, and Chemical Equipment and



Control), and the master's program for the "Tier One" discipline (Chemical Engineering and Technology), 4 master's programs for the "Tier Two" disciplines (Chemical Process Machinery, Chemical Engineering, Chemical Technology, and Industrial Catalysis), the professional master's program (Chemical Engineering), and 2 undergraduate programs (Chemical Engineering and Technology, and Process Equipment and Control).

Scientific Research

The college houses the National Engineering Research Center for Fertilizer Catalysts, the public service platform of Hercynian petrochemical catalytic materials, Reactive distillation technology Fujian Province university engineering research center and other national and provincial scientific research platform. Since entering the 12th Five-Year Plan, the School has obtained over 146 research projects approved by provincial or national agencies and its research funding has reached 80.5 million RMB. The School holds 148 authorized national invention patents. Its teaching and research faculty have published 200 scientific papers, which have been indexed into SCI, EI and ISTP. Gearing up to research and application development. The School has won plenty of scientific awards, including a second prize of National Science and Technology Progress Award, a second prize of National Technological Invention Award, a third prize of National Invention Award, and 7 Provincial and Ministerial Science and Technology Award.

Cooperation and exchange

The college has programs with several leading universities or research institutes worldwide for academic exchange, staff training and research collaboration. It has strong and long-term partnerships with universities in U.S., U.K, France, Canada, Japan, and Singapore, and famous "Project 985" Universities in China. The School also hosts international and national scholarly conferences on a regular basis.

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