4th China-United States Symposium on Energy

Shanghai, China

June 25~27, 2017

2nd Announcement

Organized by:
Shanghai University
Welcome Address

Dear Colleagues,

This is the second circular for the 4th China-United States Symposium on Energy, to be held in Shanghai China on June 25-27, 2017. We are glad to have you informed that the conference has attracted much attention from scholars at home and abroad. We would like to appreciate all these supports.

The topics of technical program can be found in the First Announcement of CUSE 2017. The program includes oral sessions, poster sessions, and an industrial exhibition. Its mission is to show the latest research progress in the basic science and key application technology of clean energy materials. As we all know, The United States and China are the largest developed country and the largest developing country, respectively. Furthermore, as the largest energy consuming countries, they share broad common interests in clean energy, energy conservation, and environmental protection. Hence the symposium aims to provide a forum for scientists and engineers (mainly from China and USA) to share their ideas, observations and innovations.

We herewith would like to remind you to notice the important dates and registration method of the conference. The deadline for submission of abstracts has been delayed to April 15, 2017. The deadline for early registration has been delayed to May 1, 2017. A scholarship in the 5th Session which is dedicated to Professor Kuochih Chou for his 50 years contributions in physicochemical process is started. The deadline for student fellowship application is May 1, 2017.

We again invite you to join us in Shanghai and look forward to a successful and inspiring conference!

Kuo-Chih Chou
Conference Co-Chair
Professor of Shanghai University
Professor of University of Science & Technology Beijing
Member of Chinese Academy of Sciences

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Conference Co-Chair
Charles and Carroll McArthur Endowed Chair Professor
Michigan Technological University
AAAS/AIChe/RSC Fellow
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Member of Chinese Academy of Sciences

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Sessions
1. Clean and Renewable Energy
2. Advancements in Materials and Processes for Energy
3. Energy Conversion and Storage
4. CO$_2$ Capture, Conversion and Utilization
5. Physical Chemistry in Energy Conversion

Important Dates
Second announcement and final call for papers: January 16, 2017
Deadline for submission of abstracts: April 15, 2017
Deadline for early registration: May 1, 2017
Deadline for student fellowship application: May 1, 2017
Deadline for submission of full manuscript: June 20, 2017

Call for Papers
Please submit the abstract via email to shuliqian@t.shu.edu.cn with 4th China-USA in the subject line before April 15th, 2017. Please indicate your name, full address and the specific symposium session.

Publication:
Original and unpublished manuscript can be published in the Journal of Materials Science & Technology or a special issue of Catalysis Today after peer reviews. The format of full manuscript should be complied with the requirements of corresponding Journals. The full manuscript should be submitted to shuliqian@t.shu.edu.cn with 4th China-USA in the subject line before June 20th, 2017. More information of the Journals can be found in https://www.journals.elsevier.com/catalysis-today (Catalysis Today) or http://www.jmst.org/EN/1005-0302/home.shtml (Journal of Materials Science & Technology).

Registration Fee
The registration fee covers participation in all sessions of the symposium, a set of proceedings, invitations to a welcome party and a banquet, and all meals during the conference (tentatively).

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**Payment Information:**
Please see the attachments.

**Contact Us**
If you have any enquiries, suggestions and comments regarding all aspects of the conference, please send an email to shuliqian@t.shu.edu.cn or wucz@t.shu.edu.cn. You could also visit the conference website http://CUSE2017.shu.edu.cn or contact the secretariat for further information.
**Programmes**

**Plenary Lectures**

**Prof. Chain-Tsuan Liu**
Member of US National Academy of Engineering  
Foreign Member of Chinese Academy of Engineering  
Editor of “Intermetallics”  
City University of Hong Kong, China  
Lecture title:  
Advanced nanostructured steels and reduction of CO₂ pollutions in China

**Prof. Cewen Nan**
Member of Chinese Academy of Science  
Yangtze River Scholar Distinguished Professor  
Winner of NSFC Outstanding Young Investigator Award  
Tsinghua University, China  
Lecture title:  
The solid-state lithium battery

**Prof. Weihua Wang**
Member of Chinese Academy of Science  
Yangtze River Scholar Distinguished Professor  
Winner of NSFC Outstanding Young Investigator Award  
Institute of Physics Chinese Academy of Sciences, China  
Lecture title:  
Soft magnetic amorphous alloy

**Prof. Zhigang Zou**
Member of Chinese Academy of Science  
Yangtze River Scholar Distinguished Professor  
Nanjing University, China  
Lecture title:  
Utilization of carbon source: Solar light-driving photoconversion of CO₂ into renewable hydrocarbon fuels at room temperature
Prof. Yi Cui
Member of Materials Research Society
Member of American Chemical Society
Editor of “Nano Letters”
Stanford University, USA
Lecture title:
Nanomaterials Design for Energy

Prof. Gyeong S. Hwang
Winner of NSF CAREER Award
Winner of Service Recognition Award
ICC Global Lecturer.
University of Texas at Austin, USA
Lecture title:
Accelerating Materials Discovery and Design through Computational Modeling

Dr. Burtrand I. Lee
Program Manager of ACS PRF research proposals
The American Chemical Society (ACS), USA
Lecture title:
Crystallography & Nanostructure of Titanates

Prof. Zhiqun Lin
Fellow of the Royal Society of Chemistry
US Frontiers of Engineering Symposium
Georgia Institute of Technology, USA
Lecture title:
Engineering Light Absorption and Film Crystallization for High-Efficiency Perovskite Solar Cells
Prof. Uday B. Pal
Member of Electrochemical Society and TMS
Member of Editorial Board of “Advances in Manufacturing”
Boston University, USA
Lecture title:
To be confirmed

Prof. Ramana G. Reddy
ACIPCO Endowed Professor of Metallurgy
Editor-in-chief of “Journal for Manufacturing Science & Production”
University of Alabama, USA
Lecture title:
The Energy conversion and Storage

Prof. Daniel E. Resasco
George Lynn Cross Professor
Member of Editorial Board of “Applied Catalysis” and “Journal of Catalysis”
University of Oklahoma, USA
Lecture title:
Mechanistic Aspects of C-C bond forming reactions and C-O cleavage reactions of relevance in catalytic upgrading of biomass compounds

Prof. Berend Smit
Director of the Energy Center at EPFL
Director of the European Center of Atomic and Molecular Computations (CECAM) Lyon France
University of California at Berkeley, USA
Lecture title:
To be confirmed
**Prof. Dario J. Stacchiola**
Group leader of Brookhaven National Laboratory
Michigan Technological University, USA
Lecture title:
Catching Catalysis in the Act: In Situ Studies with X-Rays and Electrons

**Prof. Xunli Wang**
Fellow of American Physical Society
“Chang Jiang Chair Professorship” Chinese Ministry of Education
City University of Hong Kong, China
Lecture title:
Neutron Scattering and Energy Science

**Prof. Younan Xia**
Fellow of American Institute for Medical and Biological Engineering
Fellow of Materials Research Society
Georgia Institute of Technology, USA
Lecture title:
Rational Design and Synthesis of Pt-Based Catalysts toward Oxygen Reduction for the Fuel Cell Application
**Keynote Lectures**

**Dr. Ping Chen**
Winner of NSFC Outstanding Young Investigator Award  
Editor of Journal of Materials Research  
Dalian Institute of Chemical Physics, Chinese Academy of Sciences  
Lecture Title: Amides and Ammonia as hydrogen carriers

**Prof. Qingfeng Ge**
“Thousand Talent” by Tianjin Municipal City  
Southern Illinois University, USA  
Lecture Title: To be confirmed

**Prof. Jinlong Gong**
Yangtze River Scholar Distinguished Professor  
Winner of NSFC Outstanding Young Investigator Award  
Fellow of the Royal Society of Chemistry  
Tianjin University, China  
Lecture Title: Effective charge carrier utilization in photocatalytic conversions
Prof. Fangming Jin
Yangtze River Scholar Distinguished Professor
Member of American Chemical Society
Shanghai Jiao Tong University, China
Lecture Title:
Highly efficient conversion of CO2 and water into chemicals and fuels by mimicking nature

Prof. Feng Li
Young and Middle-aged Scientific and Technological Innovation Leader
Winner of NSFC Outstanding Young Investigator Award
Editor of Energy Storage Materials
Institute of metal research, Chinese Academy of Sciences
Lecture Title:
High performance carbon/sulfur hybrids for advanced Li-S batteries

Prof. Gang Li
Member of Materials Research Society, American Physical Society, American Chemical Society and International Society for Optical Engineering
The Hong Kong Polytechnic University, China
Lecture Title:
High Performance Printable Photovoltaic Devices

Prof. Changjun Liu
Yangtze River Scholar Distinguished Professor
Winner of NSFC Outstanding Young Investigator Award
Fellow of the Royal Society of Chemistry
Tianjin University, China
Lecture Title:
Research Progresses in CO2 Hydrogenation
Prof. Yong Liu
Young and Middle-aged Scientific and Technological Innovation Leader
Winner of NSFC Outstanding Young Investigator Award
Humboldt Research Fellowship
Dean of Powder Metallurgy Research Institute of Central South University
Central South University, China
Lecture Title:
Novel-propertied high entropy alloys prepared by powder metallurgy

Dr. Shirley Meng
Winner of the National Science Foundation (NSF) Career Award
Director of Laboratory for Energy Storage and Conversion
University of California, San Diego
Lecture Title:
New Perspectives in Materials Design and Optimization in Energy Storage for E-Mobility

Prof. Shizhang Qiao
Honorary Professor at The University of Queensland
ARC College of Experts
Associate Editor of Journal of Materials Chemistry A
The University of Adelaide, Australia
Lecture Title:
Electrocatalysis for Energy Conversion Processes

Prof. Zhigang Shuai
Yangtze River Scholar Distinguished Professor
Winner of NSFC Outstanding Young Investigator Award
Fellow of the Royal Society of Chemistry
Tsinghua University, China
Lecture Title:
Modelling carrier transports by first-principles for thermoelectric and photovoltaic materials
Dr. Xianqin Wang
Winner of Outstanding Performance Award (OPA), PNNL
Fellow of American Chemical Society
New Jersey Institute of Technology, USA
Lecture Title:
Upgrading of Pyrolysis Bio-oils by Hydrodeoxygenation Process

Prof. Xuebin Yu
Winner of NSFC Outstanding Young Investigator Award
Shanghai PuJiang Program
Fudan University, China
Lecture Title:
Nanostructured hydrides for hydrogen storage

Dr. Ling Zang
Winner of the National Science Foundation (NSF) Career Award
Director of Nano Institute of Utah
Editor of Scientific Reports
University of Utah, USA
Lecture Title:
Organic Photocatalysts for Solar Energy Conversion

Prof. Fan Zhang
President of CompuTherm LLC
CompuTherm LLC, USA
Lecture Title:
High throughput calculation for advanced materials design
Prof. Wenqing Zhang
Winner of NSFC Outstanding Young Investigator Award
One Hundred Person Project of the Chinese Academy of Sciences
Member of American Physical Society
Shanghai University, China
Lecture Title:
Tuning band degeneracy for designing high performance thermoelectric materials

Prof. Min Zhu
Yangtze River Scholar Distinguished Professor
Ministry of Science and Technology “973 Project” Chief Scientist
Winner of NSFC Outstanding Young Investigator Award
South China University of Technology, China
Lecture Title:
Recent progress in hydrogen storage materials
Hosts:

- National Natural Science Foundation of China
- ACS ENFL Division
- Green Technology Bank
- IAHE Hydrogen Storage Division

Co-organizers:

- Branch of physical-chemistry of Metallurgy, Chinese Society for Metals (CSM)
- China Association for Hydrogen Energy

Organizers:

- Shanghai University
- Shanghai Science and Technology Exchange Center
- Shanghai Office of Academic Research Promotion