

4th Circular & Call for Papers

The 8th International Conference on Advances and Applications of Innovative Energy Materials (AAIEM2018)

Organized by

Guangxi University, China

Guangxi Association for Science and Technology, China

Hosted by

State Key Laboratory of Processing for Non-ferrous Metal and Featured Materials,
Guangxi University, China

Collaborative Innovation Center of Sustainable Energy Materials, Guangxi
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Scope

The 8th International Conference on Advances and Applications of Innovative Energy Materials (AAIEM2018) will be held from November 30th to December 4th, 2018 in Nanning, China and will be held in the beautiful campus of Guangxi University. The first AAIEM was started in Sun Yat-sen University, Guangzhou in 2001 (AAIEM2001), followed by successful 2nd to 6th AAIEM in Sun Yat-sen University from 2003 to 2014. The 7th AAIEM was transferred to Nanning organized by Guangxi University in 2015.

The Conference consists of plenary talks, invited keynotes, oral and poster presentations, focusing on the most recent advances and developments in novel energy materials, new electrochemical technologies and applications and fundamental understanding in this important field of electrochemical energy storage and conversion technologies. The Conference will provide a forum for leading national and international scientists and engineers to exchange and communicate their work to the next generation of researchers as well as to industry, and thereby inspire the research communities to continuously make the scientific and technological breakthroughs needed to accelerate the transition towards a clean and sustainable energy society.

Topics

Five main themes will be covered in this Conference, including Fuel Cells, Batteries, Electrochemical Capacitor and Renewable Energy Materials, Fundamental Electrochemistry and Electric Vehicles.

E1 -- Fuel cells

This symposium is devoted to all aspects of research, development, and engineering of high temperature solid oxide fuel cells (SOFCs), direct carbon fuel cells, microbial fuel cells, polymer electrolyte fuel cells (PEFCs), as well as direct alcohol fuel cells using either anion or cation exchange membranes. The intention is to bring together the international community working on the subject and to enable effective interactions between research and engineering communities. The symposium is structured as different sections covering diagnostic techniques and stack systems design/components; catalysts and membranes, methanol and ethanol reforming to produce hydrogen

for fuel cells; included are also interconnect/bipolar plates, performance degradation and novel nano-structured materials and smart carbon-based materials for fuel cells.

E2 -- Batteries

Batteries in particular Lithium-ion batteries have been the workhorses in portable electronic devices such as cellular phones, laptop computers, and digital cameras. In recent years, lithium-ion batteries are being used for plug-in hybrid electric vehicle (PHEV) and full electric vehicle (EV) applications. This symposium is a forum for discussion on both fundamental and applied aspects of lithium-ion and other types of batteries such as flow batteries, lead-acid batteries and metal/air batteries. Specific areas to be covered include but not limited to: (1) Electrode design, characterization, and performance. (2) Electrolyte development and characterization. (3) Novel electrode processing and cell design. (4) Electrode interfacial studies and diagnostic techniques. (5) Materials, electrode, and cell modelling. (6) Elucidation of aging and failure modes and mechanisms, and (7) PHEV and EV performance, fast charge/discharge, safety and market prospect, etc.

E3 – Electrochemical capacitors and renewable energy materials

Electrochemical capacitors (i.e., “supercapacitors” or “ultracapacitors”) are emerging as an attractive energy-storage solution for new technologies with challenging power/energy requirements. The goal of this symposium is to address all aspects of electrochemical capacitor research, development, and real-world applications. They are: nanostructured materials including graphene, metal oxides, nitrides, other advanced inorganic materials, and conducting polymers; characterization and optimization of practical electrochemical capacitor components, new device designs (symmetric and asymmetric), and hybrid systems; theory and modelling as tools; and application tests of electrochemical capacitors in real-world conditions. Included are also renewable fuel and hydrogen production, electrochemical reduction of carbon dioxide, water splitting, and other electrochemical devices like electrolyzers, electrochemical hydrogen pumps, etc.

E4 -- Fundamental electrochemistry

This symposium will cover all aspects of the fundamental electrochemistry, electrochemical interfaces and new and in situ electrochemical characterization techniques related to energy storage,

energy conversion; cutting-edge researches of electrochemical science and technology. The fundamental phenomena related to the nano or mesoporous structured electrode and membrane materials are to be covered. Developments in the new and smart carbon materials like graphene and their fundamental electrochemical and computational understanding will also be welcome.

E5 – Electric vehicles

Meeting the Electric Vehicles challenge: cycle life, power & energy, cost and safety. The symposium covers all kinds of electric vehicles including all-electric or battery electric vehicles (BEVs), plug-in hybrid vehicles, (PHEVs), and electric vehicle conversions of hybrid electric vehicles and conventional internal combustion engine vehicles. Materials and technologies related to improved car parts performance like fast charge/discharge batteries, auto lightweight technology, long-life oils, anti-friction tyres.

Conference Language

The official language of the conference is English. The oral presentations and posters will be in English.

Venue

The conference will be held in the campus of the Guangxi University, <http://www.gxu.edu.cn/>
Address: 100 Daxue Road, Nanning, 530004, China



Nanning is the capital city as well as the center of politics, economy, culture, education, technology, information and finance of Guangxi Zhuang Autonomous Region. The city exercises jurisdiction over five districts and two counties. With a total population of 2,945,600, Nanning covers an area of 10,029 square kilometers. On its east there are Guangdong province, Hong Kong and Macao; on its south there is Beibu Gulf.

Nanning is a green city, and is renowned for its green mountains and clear waters, fresh air, beautiful flowers blooming in every season and also for the aroma of melon and fruit around the city. The average temperature in November is around 16–24 °C. It has good ecological environment and investment environment. The administrative management here is highly efficient and incorruptible. It is an ideal city for investment, trade, meeting, exhibitions, tourism and residence.



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Call for Papers

Abstract submission is currently open for both oral and poster presentations. Please use the template as shown below and limited to one page:

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Affiliation

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Please read the instructions on the website.

The only font to be used is **Times New Roman**.

No abstract may go beyond one page.

Invited and contributed papers will be presented in either oral or poster sessions. One-page abstracts for the symposium must be submitted electronically by November 15th, 2018 via tianzhiquan@gxu.edu.cn.

For the invited speakers, as a token of appreciation, the organizing committee will give the speaker an honorarium.

Important Days

Abstract Submission Close:	November 15 th , 2018
Notification of Abstract Acceptance:	November 20 th , 2018
Conference Beginning:	November 30 th , 2018
Book Chapter Submission Close:	March 30 th , 2019

Confirmed Plenary Speakers

Prof. Yong Gan

Chinese Academy Engineering, China



Yong Gan, professor-level senior engineer, metallurgical material expert, academician of Chinese Academy of Engineering (2001), doctoral tutor. Since 1994, he has been the director of the National Engineering Research Center for Continuous Casting Technology. Since April 2001, he has served as the president of the Iron and Steel Research Institute. He is also the president of China Rare Earth Industry Association and the Chairman of China Metal Society. In 2002, he was elected as a representative of the 16th National Congress of the Communist Party of China and a member of the Presidium. In 2007, he was elected as the representative of the 17th CPC National Congress. In June 2010, he was elected as the vice president of the Chinese Academy of Engineering. He is currently a member of the 12th National Committee of the Chinese People's Political Consultative Conference and deputy director of the Population, Resources and Environment Committee, and the director of the National New Materials Industry Development Expert Advisory Committee.

Academician Yong Gan has been engaged in metallurgy, new materials and modern steel process technology research for a long time. He is one of the academic leaders of materials, metallurgy and modern steel processes in China. He has won 2 second prizes of National Science and Technology Progress Award and 5 first prizes of provincial and ministerial level scientific and technological progress. He has obtained 24 patents, including 15 invention patents, published more than 140 papers and published 3 books. Academician Yong Gan is a young and middle-aged expert with outstanding contributions at the national level. He was awarded the title of “National Advanced Worker” by the national “Eighth Five-Year Plan” for scientific and technological research and the “National Outstanding Contributor” of the National “Ninth Five-Year Plan”. He has presided over the research work of the National Eleventh Five-Year Major Support Project “New Generation Recyclable Steel Process Technology”, and served as the Chairman of the Steel Industry Technology Innovation Strategy Alliance and the National “Key New Materials R&D and Engineering” Major Engineering Program Expert Group. The leader of the group, the chairman of the China Association for Science and Technology Advanced Materials Association, and the National Science and Technology Innovation 2030 Major Project - the team leader of the "Key New Materials R&D and Application".

Prof. Héctor D. Abruña,

Cornell University, USA

E-mail: hda1@cornell.edu

Title: Operando Methods for The Study of Energy Materials



Héctor D. Abruña Department of Chemistry & Chemical Biology
and Energy Materials Center at Cornell University
Cornell University, Ithaca, New York, USA
E-mail: hda1@cornell.edu

Abstract: This presentation will deal with the development of operando methods for the study and characterization of fuel cell and battery materials. The presentation will begin with a brief overview of the methods employed. Particular emphasis will be placed on the use of X-ray diffraction (XRD), X-ray absorption spectroscopy (XAS) X-ray microscopy and tomography and transmission electron microscopy (TEM) under active potential control. The utility of these methods will be illustrated by selected examples including electrocatalysts for the oxygen reduction reaction and spectroscopic studies of Li/S batteries and Li metal deposition and dendritic growth. The use of operando TEM will be illustrated by studies of fuel cell catalyst degradation and coalescence and lithiation/de-lithiation dynamics of LiFePO_4 via energy-filtered TEM. The presentation will conclude with an assessment of future directions.

Dr. Piotr Zelenay

Los Alamos National Laboratory, USA

Email: zelenay@lanl.gov

Title: Recent Progress in the Development of Platinum Group Metal-free Oxygen Reduction Catalysts for Oxygen Reduction Reaction



P. Zelenay

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Los Alamos, New Mexico 87545, USA

E-mail: zelenay@lanl.gov

Abstract: In this lecture we will review recent development of platinum group metal-free (PGM-free) electrocatalysts for oxygen reduction reaction at Los Alamos National Laboratory (LANL). This effort is an integral part of Electrocatalysis Consortium (ElectroCat), one of several consortia comprising DOE-EERE's Energy Materials Network (EMN). The primary objective of this research is to develop and implement PGM-free catalysts and electrodes by streamlining access to unique synthesis and characterization tools across the U.S. national laboratory system and continuous development of new capabilities. PGM-free research at LANL aims specifically at improving ORR active-site density through the development of new catalysts and advanced electrodes to improve mass transport of oxygen and product water, and to enhance ionic conductivity within the catalyst layer. In general, the approach focuses on fundamental understanding of the origins of the ORR activity in PGM-free catalysts and on the structure and composition of active sites as prerequisites for the rational design of future catalysts with significantly improved activity and performance durability.

We will present latest accomplishments in the development of atomically dispersed and partially nanoparticulate PGM-free catalysts at Los Alamos and methods for identifying and quantifying the ORR active sites and also for assessing the main causes of insufficient durability of the state-of-the-art M-N-C catalysts obtained via the high-temperature approach. The results from both experiment and modeling will be presented, emphasizing complementary character of the two approaches. We will also summarize the results from in situ and ex situ characterization studies, which target molecular-level insight into PGM-free catalysts. In this part of the presentation, we will

concentrate in particular on microscopic and x-ray absorption spectroscopic methods, with their capabilities recently enhanced by the implementation of molecular probes of possible ORR active sites, directly on the catalyst surface, such as nitric oxide (NO) and nitrite anion (NO₂⁻). This approach, pursued in close collaboration with LANL's ElectroCat partners, allows to make otherwise bulk techniques surface-specific.

We will conclude this presentation with a review of the biggest challenges facing PGM-free electrocatalysis for oxygen reduction, including (i) still unsatisfactory activity and durability of catalysts (especially those derived from metal organic frameworks), (ii) inadequate understanding of the catalyst and electrode degradation mechanism, (iii) risks of (over)relying on Fe-based formulations, and (iv) ultimate integration of PGM-free materials with existing automotive fuel cell stack and system technologies.

Prof. Shigang Sun

Xiamen University, China

Email: sgsun@xmu.edu.cn

Title: Structure Design and Control-Synthesis of Electrocatalysts for Fuel Cell Applications

Shi-Gang Sun

State Key Laboratory of Physical Chemistry of Solid Surfaces,

College of Chemistry and Chemical Engineering,

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Abstract: Electrocatalyst is the key in developing electrochemical energy conversion and storage, and in green chemistry of electrosynthesis using electrons as reagents. The activity, selectivity and stability of electrocatalysts depend strongly on both their bulk and surface structures. Therefore, the rational design and control-synthesis of electrocatalysts are the central subjects and are mainly based on a well understanding in structure-catalytic functionality, which was achieved in the past through employing metal single crystal planes as model catalysts. Since practical electrocatalysts often consist of nanosize particles substrated on conductive support materials, design and control-synthesis of nanosize catalysts present effective strategy to overcome the gap between single crystal model catalysts and practical catalysts. This communication describes results focusing on structure design and control-synthesis of both anode and cathode catalysts towards fuel cell applications.

(1) Tuning the surface atomic arrangement of well-defined metal nanocatalysts. Well-defined Pt, Pd, Rh and Cu nanocrystals enclosed by high-index facets have been successfully obtained by developing electrochemically shape-controlled synthesis, such as tetrahexahedral nanocrystals (THH NCs) enclosed with {hk0} high-index facets, trapezohedral nanocrystals (TPH NCs) with {hkk} high-index facets, triambic icosahedral nanocrystals (TIH NCs) with {hhl} high-index facets and hexoctahedral Pt NCs (HOH NCs) with {hkl} facets. As the high-index facets contain a high density of active centers, these NCs of high surface energy exhibit much higher electrocatalytic activity than commercial catalysts for small organic fuel oxidation reactions.

(2) Tuning the electronic structure of Pt- and Pd-based nanocatalysts. The electronic structure of NCs catalysts has been tuned either by surface decoration using foreign adatoms, or through alloying Pt and Pd with other metals. Different adatoms such as Bi, Ru and Au were used to decorate the THH Pt NCs, and both THH and TPH Pt-based alloy nanocatalysts were prepared by electrochemically shape-controlled method. The THH and TPH alloy NCs preserve the high-index facets while hold a synergy of electronic effect that enhances further the electrocatalytic activity.

(3) Synthesis of non-precious metal electrocatalysts with high ORR activity. Fe/N/C is a promising electrocatalyst for oxygen reduction reaction (ORR). By well-screening the precursors, optimizing the synthetic procedures and surface decoration, the resulted Fe/N/C exhibits high activity and stability in both acid and alkaline conditions. The results demonstrated that the Fe/N/C-SCN catalysts in a proton exchange membrane fuel cell (PEMFC) can output a maximum power density

of 1.03 W cm², and by using 2-aminothiazole as precursor the synthesized S-doped Fe/N/C catalyst with graphene nanosheets can yield a peak power density of 164 mW cm² in an anion exchange membrane fuel cell (AEMFC).

Acknowledgements. The studies were supported by the National Key Research and Development Program of China (2017YFA0206500) and the National Science Foundation of China (21621091, 21573183, and 21703184)

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Prof. Zhigang Zou

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Title: MATERIALS FOR PHOTOCATALYTIC SOLAR FUEL



Zhigang Zou

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Abstract: The concept of using solar energy to solve the global energy and environmental problems are has been intensified from the standpoints to a technological assessment, since the energy and environmental issues in a global level are important themes tackled in the 21st century. The mass consumption of fossil fuels after 20th century has produced negative properties in future such as the exhaustion of petroleum resources and the contamination of environment. In order to continue the global human life, it is very important to exploit new clean energy resources instead of fossil fuels without heavy burden to energy and environment. Exactly the solar energy conversion satisfies above conditions. In this talk, we will introduce advance and development of the solar energy conversion research in our group and the relative research project.

Keywords: Photocatalys, solar fuel, solar energy conversion

Confirmed Keynote Speakers

Prof. Suddhasatwa Basu,	Director, CSIR-Institute of Minerals & Materials Technology, India
Prof. Alessandro Lavacchi,	Istituto di Chimica dei Composti OrganoMetallici–ICCOM, Italy
Prof. Bob Slade,	University of Surrey, UK
Prof. Changfeng Yan	Guangzhou Institute of Energy, CAS, China
Prof. Chuan-Jian Zhong	State University of New York at Binghamton, USA
Prof. Haitao Huang	Hong Kong Polytechnic University, Hong Kong
Prof. Haiyan Zhang	Guangdong University of Technology, China
Prof. Hasuck Kim,	Daegu Gyeongbuk Institute of Science and Technology, Korea
Prof. Huamin Zhang,	Dalian Institute of Chemical Physics, CAS, China
Prof. Jinli Qiao	Donghua University, China
Prof. Kenichiro Ota	Yokohama National University, Japan
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Prof. Zidong Wei, Chongqing University, China

Prof. Zongping Shao Curtin University, Australia

Important Information

Presentations can be oral or poster.

The one-page abstract should be sent to tianzhiquan@gxu.edu.cn by November 15th, 2018.

All the articles should be sent to tianzhiquan@gxu.edu.cn. Any technical questions please contact Prof. Pei Kang Shen (pkshen@gxu.edu.cn).

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As a valued sponsor in *The International Conference on Advances and Applications of Innovative Energy Materials (AAIEM2018)*, your organization will receive the following benefits:

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- (2) 20 minutes promote speech.
- (3) One person serves as a member of the Organizing Committee.
- (4) Promotional videos provided by sponsor during the conference and the breaks in the venue (VCD / DVD, within 5 minutes).
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- (6) Two exhibition tables (about 1.5 m long) and power supply board for product and picture display.
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五、 Dinner Sponsorship (≥US\$15,000) :

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- (4) Promotional videos provided by sponsor before dinner (VCD / DVD, within 5 minutes).
- (5) One color page in brochures for interstitial advertising (provided by the sponsor).
- (6) Two company's Yi Labao at conference venue. (provided by the sponsor).
- (7) Two exhibition tables (about 1.5 m long) and power supply board for product and picture display
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- (9) The person in charge of the company could give a speech at the dinner, and the dinner will be named by the company's name.

六、Venue Advertising (≥US\$10,000) :

- (1) As the sponsor of this conference. The company's LOGO will be appeared at the meeting's promotional materials.
- (2) One person serves as a member of the Organizing Committee.
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- (4) Two exhibition tables (about 1.5 m long) and power supply board for product and picture display.
- (5) A 4m x 6m billboard in the main venue.
- (6) Two company's Yi Labao at conference venue. (provided by the sponsor).
- (7) Free of registration fee for 4 people.

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- (1) One side is the company's advertisement other side is the logo of the conference on the bags.
- (2) The company's LOGO will be appeared at the meeting's promotional materials.
- (3) Free of registration fee for 1 people.

九、Badges and Lanyard Ads (≥US\$2,500) :

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- (2) Free of registration fee for 1 people.

Any questions please contact:

Prof. Shibin Yin

Tel. 13207719409

E-mail: yinshibin@gxu.edu.cn

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All participates reserve rooms, please contacting **Prof. Xinyi Zhang via zhangxinyi@gxu.edu.cn** in advance.

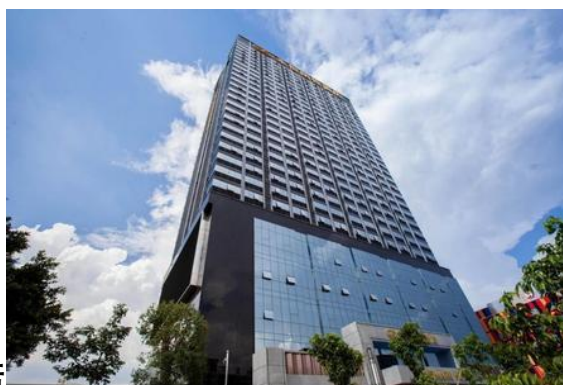
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Hotel information

1, Landmark Hotel



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100 meters away from the Guangxi Univ. Entrance		
Information of the hotel rooms		
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豪华双床房 Deluxe Twin Room	478	458
豪华大床房 Deluxe King Room	488	470
时尚大床房 Fashion King Room	528	500
尊荣大床房 Super King Room	598	588
商务套房 Business Suite	678	668
佩纳宫（行政套房） Palacio da pena	838	795
浦屏宫（情侣套房） Phu ping palace	938	800

2.广西大学荟萃楼

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房型 Room type	门市价/元 Retail Price / Yuan (Free breakfast for two)	会议优惠价/元 Conference Price /Yuan (Free breakfast for two)
单人房 Single room	/	288 (含双早)
双床房 Twin room	/	288 (含双早)

3. 拜伦酒店



地址：南宁市大学东路 106 号（广西大学正门旁）		酒店联系电话： 0771-2212208/2796999
距离广西大学校门 30 米 30 meters away from the Guangxi Univ. Entrance		
酒店房型资料 Information of the hotel rooms		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
标准大床房 Standard Large Bed Room	199	185
标准双床房 Standard Double Bed Room	199	185

豪华大床房 Deluxe King Room	219	210
豪华双床房 Deluxe Twin Room	219	210
家庭双床房	239	220

4. 嘉悦大酒店



地址：南宁市大学东路 105 号（广西大学正门旁）		电话 0771-2336363
距离广西大学校门 30 米 30 meters away from the Guangxi Univ. Entrance		
酒店房型资料 Information of the hotel rooms		
Room types	Retail Price / Yuan (Free breakfast for two)	Conference Price /Yuan (Free breakfast for two)
豪华大床房 Deluxe King Room	229	219
豪华双床房 Deluxe Twin Room	239	224
豪华商务房 Deluxe Business Room	249	240
时尚精品房 Fashion King Room	299	289
休闲麻将房	319	309

Registration Fee*

Category	Registration Fee / USD\$ or RMB ¥	Registration Fee / USD\$ or RMB ¥
	Early Registration Before October 20 th , 2018	Late Registration After October 20 th , 2018
Standard	\$400 or ¥ 2400	\$500 or ¥ 3000
Student	\$200 or ¥ 1200	\$300 or ¥ 1800
Single Day	\$200 or ¥ 1200	
Banquet	\$50 or ¥ 300	

* Please mark “AAIEM2018” in the postscript and inform **Secretariat** via E-mail:

tianzhiquan@gxu.edu.cn.

Registration Form

Name		Sex		Age, √			
				≤35	>35		
Affiliation							
Registration Fee / USD\$/RMB ¥							
Banquet / \$50/ ¥ 300 (Registered, free) √			<input type="checkbox"/> Yes		<input type="checkbox"/> No		
Address							
E-mail				Postal Code			
Tel.			Fax				
Presentation √	Oral		Poster		Exhibition		
	Symposium No.						
Abstract Title							
One-day Sino-Vietnam Border Tour—4/12/2018 (Free of charge)			<input type="checkbox"/> Yes		<input type="checkbox"/> No		

* Age less than 35 is as young people.

** Please submit the filled form before October 20th, 2018 to Prof. Zhiqun Tian. E-mail:
tianzhiqun@gxu.edu.cn.

*** Any participant can pay early-bird fee in cash on site if registered before October 20th, 2018.

Tentative Program

Time	Activity	Remark
30/11/2018	Registration at Landmark Hotel, 118 Daxue Road, Xixiangtang Region, Nanning Reception	 Reception starts at 6:30 pm.
1/12/2018	Conference Opening Plenary Lecture Oral Presentation Poster Exhibition	 Six Plenary Lectures Forty Keynote Talks
2/12/2018	Plenary Lecture Oral Presentation Poster Exhibition Banquet	 Banquet starts at 6:30 pm.
3/12/2018	Oral Presentation Poster Exhibition Conference Closing	Twenty Best Paper Award (Oral and poster)
4/12/2018	One-day Sino-Vietnam Border Tour	Free of Charge for All Participants

Host

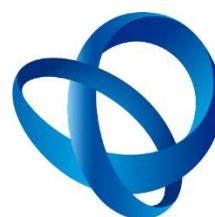
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