

**28<sup>th</sup> CGCA<sup>®</sup> Annual Conference**  
第二十八届留德华人化学化工学会学术年会



**Program**

**2016**

June 10-11

Düsseldorf, Germany

**Chinese-German Chemical Association (CGCA<sup>®</sup>)**  
**Gemeinschaft Chinesischer Chemiker und Chemieingenieure**  
**in Deutschland e.V. (GCCCD, VR 17428, Cologne)**

**Organizer:**

留德华人化学化工学会

Chinese-German Chemical Association (CGCA<sup>®</sup>) (VR 17428, Cologne)

**Co-Organizers:**

中国驻德国使馆教育处

Abteilung für Bildungswesen der Botschaft der Volksrepublik China in der Bundesrepublik Deutschland

杜塞尔多夫中国学者学生联合会

Verein der chinesischen Wissenschaftler und Studenten in Düsseldorf e.V. (VCWS)

**Special thanks to the Sponsors:**



## WELCOME

It is our great pleasure to welcome you to the 28th Annual Conference of the Chinese-German Chemical Association (CGCA<sup>®</sup>). We are very proud to have been entrusted with hosting the conference in Düsseldorf, the bustling Rhine metropolis in the heart of Europe with much to offer to residents and visitors.

CGCA<sup>®</sup> (VR 17428, Cologne), a non-profit Chinese academic organization of chemistry, chemical engineering and related fields, is composed of members who have experience of studying and working in Germany. The aim of the CGCA<sup>®</sup> Annual Conference is to bring together researchers, scientists and developers from universities, research institutes and industry in Germany and provide a forum for presenting and discussing recent developments in all fields related to Chemistry. This year, the theme of the 28th annual conference is “*Chemistry Meets Tomorrow’s Challenges*”. Many scientific sessions with specific topics will be presented, and the 2016 CGCA<sup>®</sup> Lubrizol Young Researchers Award will be awarded.

We thank the more than 110 scientists and renowned chemists including Prof. Dr. Christoph Janiak (University of Düsseldorf), Prof. Dr. Baolian Su (University of Namur), Dr. Fangxing Yang (Helmholtz-Centre for Environmental Research), Dr. Gang Wei (University of Bremen), Dr. Zhenglong Zhang (Leibniz Institute of Photonic Technology), Dr. Yucang Liang (University of Tübingen), and Mr. William Ker (Founder and CEO of J&K Scientific) who have accepted our invitation to attend the Annual Conference.

Special thanks go out to the Education Department of the Chinese Embassy in Germany, the Verein der Chinesischen Wissenschaftler und Studenten in Düsseldorf e.V. (VCWS), and all sponsors (Alikes, ERGO, EVONIK, Jaxin, J&K, Lubrizol, S-I SCIENCE & TECHNOLOGY, SinoJobs, and TITAN Environment Technology), as well as the steering committee and the local organizing committee without whom this annual conference would not have been possible.

We hope you enjoy the program that we have set up for you. Have a fruitful and wonderful time at the 28th Annual Conference and a pleasant stay in Düsseldorf.

Organizing Committee  
June, 2016

## Organizing and Consulting Committee

- Mr. Rongchao PAN** (Organizing Committee Chairman, University of Duisburg-Essen)  
**Dr. Yanze REN** (President of CGCA, Grünbeck Wasseraufbereitung GmbH)  
**Dr. Zhenglong ZHANG** (Vice President of CGCA, Leibniz Institute of Photonic Technology)  
**Dr. Xiaoyan CAO** (Treasurer of CGCA, University of Cologne)  
**Ms. Xiaoyuan ZHANG** (Secretary of CGCA, Friedrich Schiller University Jena)  
**Mr. Mengbo ZHOU** (Council Member of CGCA, Friedrich Schiller University Jena),  
**Mr. Zhaofei OUYANG** (Council Member of CGCA, Technische Universität Berlin)  
**Dr. Jun ZHANG** (Council Member of CGCA, University of Cologne)  
**Dr. Yujin TONG** (Council Member of CGCA, Fritz Haber Institute of the Max Planck Society)  
**Mr. Qingwei DU** (Backup Council Member of CGCA, University of Cologne)  
**Dr. Jianwei TONG** (Consultant of CGCA, Lubrizol Deutschland GmbH)  
**Dr. Lisong XIAO** (Consultant of CGCA, University of Duisburg-Essen)

## Local Organizing Committee

- Mr. Rongchao PAN** (President of CGCA-West, University of Duisburg-Essen)  
**Ms. Fanli LIN** (Vice President of VCWS (Verein der Chinesischen Wissenschaftler und Studenten in  
Düsseldorf e.V.), University of Düsseldorf)  
**Mr. Feng YAN** (Secretary of CGCA-West, University of Saarlands)  
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**Mr. Ming ZHAO** (University of Duisburg-Essen)  
**Ms. Fangfei LI** (University of Duisburg-Essen)  
**Ms. Rui XU** (Rhein Tech (Beijing) Energy Efficiency Technology Co., Ltd)

## Conference Program:

**FRIDAY, 10<sup>TH</sup> JUNE 2016**

**09:30-11:30      Registration**

**11:00-11:30      Lunch**

**11:30-11:50      Opening Remarks:**

Mr. Rongchao Pan (Chair of 28th Annual Conference)

Prof. Qi Dong (Minister Counselor, the Embassy of P.R. China in Germany)

**11:50-13:50      Session 1: Chemistry and Material                      Chair: Dr. Yujin Tong**

**11:50-12:20**      Invited-1. Prof. Dr. Baolian Su

*Hierarchically Structured Porous Materials: from Nanoscience to Catalysis, Photocatalysis and Energy Conversion and Storage*

**12:20-12:50**      Invited-2. Dr. Yucang Liang

*Lanthanide Complex-Embedded/Incorporated Periodic Mesoporous Silica Nanospheres with Tunable Photoluminescent Properties*

**12:50-13:05**      Oral-1. Dr. Yiying Zheng

*Computational Explanation and Prediction of Small- to Big-molecule Catalysts*

**13:05-13:20**      Oral-2. Ms. Lin Gan

*Ultra-fast Separation of Complex Samples in Comprehensive Two Dimensional Liquid Chromatography*

**13:20-13:35**      Oral-3. Dr. Weiwen Dong

*Synthesis and Characterization of Pd/CNT Catalysts Applied in the Liquid Phase Oxidation of Ethanol*

**13:35-13:50**      Oral-4. Mr. Haidong Liu

*Morphological Evolution of High-Voltage Spinel LiNi<sub>0.5</sub>Mn<sub>1.5</sub>O<sub>4</sub> Cathode Materials for long-life Lithium-Ion Batteries*

**13:50-14:00 Group Photo**

**14:00-14:20 Poster & Coffee Break**

**14:20-16:20 Session 2: Catalysis & Environment Chair: Dr. Gang Wei**

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14:20-14:50 Invited-3. Dr. Zhenglong Zhang

*Plasmon Catalytic Reactions at the Nanoscale*

14:50-15:05 Oral-5. Ms. Langping Wu

*Dual (C, H) Isotope Fractionation during Hydrolysis of Organophosphorus Pesticides: Potential for Pathways Characterization in Field Studies*

15:05-15:20 Oral-6. Mr. Zhenpin Lu

*Metal-Free Ammonia-Borane Dehydrogenation Catalyzed by a Bis(borane) Lewis Acid*

15:20-15:50 Invited-4. Prof. Dr. Janiak

*Metal-organic Frameworks for Cycling Heat Transformation Processes*

15:50-16:05 Oral-7. Dr. Kaidi Gao

*Methane Dehydro-Aromatization Kinetic Investigation and Potential of Membrane Reactor Application Evaluation*

16:05-16:20 Oral-8. Dr. Jiquan Liu

*Heterogenized Dirhodium Catalysts and Solid-state NMR Characterization*

**16:20-16:30 Coffee Break**

**16:30-17:55 Session 3: Industry & Career Chair: Dr. Yanze Ren**

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16:30-16:45 Oral-9. Dr. Yanze Ren

*Introduction of CGCA*

16:45-17:15 Invited-5. Mr. William Ker

*Agile R&D - the Key Factor to Achieve Industrialization and Commercialization*

17:15-17:35 Oral-10. Mr. Peng Zheng

*German Social Security System*

**17:35-17:55** Oral-11. Mr. Xiaoming Du  
*Introduction of Intellectual Property and Transfer of Residence Permit*

**17:55-19:30** **CGCA Meeting (Internal)** **Chair: Dr. Yanze Ren**

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**20:00-23:00** **Dinner**

## SATURDAY, 11<sup>TH</sup> JUNE 2015

**09:00-11:00** **Session 4: Biological & Organic Chemistry** **Chair: Mr. Mengbo Zhou**

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**09:00-09:30** Invited-6. Dr. Gang Wei  
*Design and Applications of Functional Protein and Peptide Nanofibers*

**09:30-10:00** Invited-7. Dr. Fangxing Yang  
*Targeted Analytical Toxicology: Simultaneous Determination of Chemicals and Biomarkers in Biota*

**10:00-10:15** Oral-12. Ms. Hui Zhao  
*Reactions of Cyclotrisilene with Small Molecules: An Overview of the Reactivity of Cyclotrisilene*

**10:15-10:30** Oral-13. Ms. Xiaoyuan Zhang  
*Fibrinogen Adsorption and Network Formation on Melt Drawn Isotactic Polybutene-1 Thin Films*

**10:30-10:45** Oral-14. Mr. Mao Li  
*Guanidino-pyrrole Functionalized Peptides for Gene Delivery and Supramolecular Self-assembly*

**10:45-11:00** Oral-15. Mr. Zhixu Ni  
*Omics Study on Different Classes of Lipid Peroxidation Products Using High Resolution Mass Spectrometry*

**11:00-11:15** **Coffee Break**

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**11:15-11:25      Session 5: Young Researchers Award      Chair: Dr. Zhenglong Zhang**

11:15-11:25      Dr. Zhenglong Zhang (Chair of CGCA Young Researchers Award)

*Introduction of 2016 CGCA Lubrizol Young Researchers Award*

11:25-11:45      Mr. Jie Liu

*Ligand Enabled Regioselective Carboxylation with Olefins and Allenes*

11:45-12:05      Mr. Bin Cai

*Electrocatalysis on Noble-metal-derived Pure Metallic Aerogels*

12:05-12:25      Mr. Mengmeng Li

*Impact of Interfacial Microstructure on Charge Carrier Transport*

**12:25-12:40      Coffee Break**

**12:40-13:10      Awards and Closing Remarks      Dr. Yanze Ren (Chair of CGCA)**

12:40-12:50      Poster Award

12:50-13:00      Young Researchers Award

13:00-13:10      Closing Remark and Acknowledgement

**13:10      Leaving**



## 晚宴地址



## 留德华人化学化工学会报销须知

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Dr. Xiaoyan Cao-Dolg  
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