

MCGM'2016 Final Program

2016 High Level Symposium on Measurement and Control of Granular Materials

Opening Ceremony (November 19 8:30 – 8:45)

Place: Meeting Hall, Main Building, Tsinghua University, China

Co-Chairs of Opening Ceremony:

Prof. Zhixian Jin (Deputy Secretary-General of IFMCGM)

Prof. Guosheng Gai (Councilor of IFMCGM, Tsinghua University, China)

Opening Speech: Prof. Xie Zhi (Co-Chair of MCGM2011, President of IFNCGM)

Greetings Speeches: Prof. Jingfeng Li (Vice Dean, School of MSE, Tsinghua University, China)

November 19 8:45 - 9:00 Taking Pictures (all attendees)

Plenary Sessions (PS1, PS2, PS3, PS4)

Place: Meeting Hall, Main Building, Tsinghua University, China

(Note: 20 minutes Presentation for per paper including 3 minutes discussion)

PS1: Powder Technology, Bypass System and Flow Simulation (9:00 – 10:20)

PS1 Co-Chairs: Prof. Zhipeng Wu: Manchester University, UK,

Prof. Jun Yao: China Petroleum University (Beijing), China

PS1-1 (9:00-9:20) Powder Technologies needed for Made in China 2025

Guosheng Gai

Tsinghua University, China

PS1-2 (9:20-9:40) Pressure Drop in Internal Bypass Systems: Effect of Bypass Pipe Configurations

Bin Chen, Mark Glynn Jones, Kenneth Charles Williams, Ying Wang

The University of Newcastle, Australia

PS1-3 (9:40-10:00) Numerical Simulation of Dense Gas-Solid Flow with Large Particle Size

Takuya Tsuji

Osaka University, Japan

(15 Minutes Café Break)

PS2: Bio-Products Application and Dust Explosion (10:15 – 11:15)

PS2 Co-Chairs: Prof. Hongyong Xie: Shanghai Second Polytechnic University, China

Dr. Bin Chen: The University of Newcastle, Australia

PS2-1 (10:15-10:35) Healing Characteristics of Korean Hwangto (Loess) Bio-ball and Its Application to Bio-Products.

Woo Sik Choi

The Korea Association of Powder Process Industry and Engineering (KAPPIE)

PS2-2 (10:35-10:55) Dust Explosion Accidents and Explosion Prevention Supervision in China.

Shengjun Zhong

Northeastern University, China

PS2-3 (10:55-11:15) Microwave Tomographic imaging and its application in granule measurement.

Zhipeng Wu

Manchester University, UK

The 4th Members Congress of International Federation of MCGM

November 19, 2016 11:15~12:30

Co-Chairs: Prof. Zhixian Jin, Deputy Secretary-General of IFMCGM

Prof. Xinguang Li, Secretary-General of IFMCGM

Mr. Shaojun Wu (Member of Secretariat; Tsinghua Univ.)

1. Summary Speech for 3rd Term of IFMCGM Progress by Secretariat of IFMCGM Committee;

2. Election of 4th Term of Committee Councilors of IFMCGM by all attendees

(Election Supervision Group, Director: Prof. Xinguang Li)

3. Calculate Election Votes by Election Committee;

4. Publishing the Election Results. (By Zhixian Jin)

(Lunch Break)

PS 3: Measuring Particle Properties and Simulation (13:50 – 14:50)

PS Co-Chairs: Prof. Takuya Tsuji : Osaka University, Japan

Prof. Guosheng Gai: Tsinghua University, China

PS3-1 (13:50-14:10) Numerical Investigation of Electrostatic Effects on Pneumatic Transport of Granular Materials

Jun Yao

China Petroleum University(Beijing),China

PS3-2 (14:10-14:30) Recent Advances in Discrete Element Modeling for Industrial Applications.

Mikio Sakai

The University of Tokyo, Japan

PS3-3 (14:30-14:50) Safety System for Dust Explosion Environment.

Jianye Shi

FSA, Germany

(15 Minutes Café Break)

PS 4 : Synthesis Materials Application and Electrostatic Sensors (15:05 – 16:45)

PS4 Co-Chairs: Prof. Mikio Sakai: The University of Tokyo, Japan

Dr. Shengjun Zhong: Northeastern University, China

PS4-1(15:05-15:25) Introduction to Particle Sizing Technology.

RenLiang Xu

Micmeritics, USA

PS4-2 (15:25-15:45) Non-uniform Spatial Sensitivity of Electrostatic Sensors.

Jianyong Zhang, R. Cheng, B. Yan

Teesside University, UK

PS4-3 (15:45-16:05) Particle size adjustment using air classifier and pulverizer in micron order range for 3D

Printing

Dr.Carl K.Ishito

AAAMachine Inc., USA

PS4-4 (16:05-16:25) Synthesis of Bulk Photocatalytic Materials and Its Application in Wastewater Treatment.

Hongyong Xie

Shanghai Second Polytechnic University, China

PS5: New Councilors Meetings (16:30~17:20)

PS5-Co-Chairs: Prof. Zhixian Jin (Deputy Secretary-General of IFMCGM)

Prof. Xinguang Li (Secretary-General of IFMCGM)

New Councilors talking and exchange their ideas for Society Development.

Welcome Ceremony (Banquet)

November 18:00 – 19:30 Place: To be decided late.

Welcome Speeches: Prof. Guosheng Gai (Tsinghua University, China)

Prof.Li Xinguang(Secretary-General of IFMCGM,China)

Chair : Prof. Xinguang Li: Northeastern University, China

Technical Session: Free Reports and Discussion (November 20 9:00 ~ 11:30)

Introducing France new Instruments by CEO of Cordoun Co. Ltd., France.

Website: www.insight-scientific.com, email: weiyu.li@insight-scientific.com

Announcement for International Conference on MCGM 2017

The 12th International Conference on Measurement and Control of Granular Materials (MCGM'2017) will be held in September 20~24, 2017. The Conference Site will be decided late by Council Committee of IFMCGM. Please prepare your paper(s) in advance and the Secretariat of IFMCGM will contact with you in the future.

Inquiry: Prof. Jin Zhixian Mobile: +86-13236632898 e-mail: Jzhixian@126.com, mcg2012@126.com

国际粉体检测与控制高端学术研讨会通知

2016年11月18~20日(清华大学)

联合主办：“国际粉体检测与控制联合会 (International Federation of Measurement and Control of Granular Materials, IFMCGM)”和“中国建材联合会粉体技术分会”。会上将邀请国内外理事会成员做重要的学术报告、换届选举。会后还组织圆桌座谈会，就粉体技术发展的热点问题和国际合作开展面对面讨论。欢迎相关研究和工程技术及专业学生参加。

研讨会报告内容：

- 1、Prof. Mark Jones, Bin Chen (陈斌)。澳大利亚散料与粉体加工处理学会理事长, New Castle University, Australia。旁路管道形状对粉体料层压力降调控的影响 (Pressure Drop in Internal Bypass Systems: Effect of Bypass Pipe Configurations)。
- 2、Prof. Jianyong Zhang (张建勇)。英国特思德大学 (Teesside University, UK), 静电传感器在非规则料仓空间的灵敏度分析 (Non-uniform Spatial Sensitivity of Electrostatic sensors)。
- 3、Prof. Takuya Tsuji。日本大阪大学 (Osaka University, Japan), 宽分布高浓度气固两相流数值分析模拟 (Numerical Simulation of Dense Gas-Solid Flow with Large Particle Size Difference)。
- 4、Prof. Woosik Choi。韩国粉体工业技术协会会长 (Director of The Korea Association of Powder Process Industry and Engineering (KAPPIE), 韩国 Loess 黄土颗粒微结构调控与其保健治疗效果分析 (Healing Characteristics of Korean Loess Bio-ball and Its Application to Bio-Products)。
- 5、Prof. Zhipeng Wu (吴志鹏)。英国曼彻斯特大学 (Manchester University, UK), 微波图像分析以及在颗粒检测分析中的应用 (Microwave Tomographic imaging and its application in granule measurement)。
- 6、Prof. Mikio Sakai。日本东京大学 (The University of Tokyo, Japan), 粉体工业过程中离散元模型分析技术发展进展 (Recent advances in discrete element modeling for industrial applications)。
- 7、Dr. Renliang Xu (许人良)。国际标准化组织 ISO TC24 SC4 颗粒分析资深专家, 美国麦克迈利提科斯粒度分析仪器公司 (Micromeritics Ltd. USA), 粉体检测分析技术近期动态 (Introduction to Particle Sizing Technology)。
- 8、Dr. Jianye Shi (史建业)。欧盟粉尘防爆与安全认证机构资深专家, (FSA, Germany), 潜在粉尘爆炸危险环境下的安全系统 (Safety System for Dust Explosion Environment)。
- 9、Prof. Shengjun Zhong (钟圣俊)。中国东北大学工业爆炸及防护研究所 (Northeast University, China), 中国粉尘爆炸事故与防爆监管 (Dust Explosion Accidents and Prevention Supervision in China)。
- 10、Prof. Guosheng Gai (盖国胜)。中国清华大学 (Tsinghua University, China), 中国制造 2025 对部分粉体加工技术的需求 (Powder Technologies needed for Made in China 2025)。
- 11、Dr. Carl K. Ishito, 美国 AAAAA 粉体机械公司 (AAAMachine Inc., USA), 3D 打印用微米级粉体的粉碎分级 (Particle size adjustment using air classifier and pulverizer in micron order range for 3D Printing)。
- 12、Prof. Jun Yao (姚军), 中国石油大学 (China Petroleum University), 颗粒物料在气力输送过程中静电现象的数值分析 (Numerical Investigation of Electrostatic Effects on Pneumatic Transport of Granular Materials)。
- 13、Prof. Hongyong Xie (谢洪勇), 上海第二工业大学 (Second Science and Technology University

Shanghai), 用于污水处理用粉状光催化材料合成 (Synthesis of Bulk Photocatalytic Materials and Its Application in Wastewater Treatment)。

报到 : 18 日在清华校内近春园宾馆。19 日上午在会场。住宿自己解决。中午有工作餐。

收费 : 国内代表 1000 元。学生免费 (19 日中午提供免费盒饭)。

报告 : 19 日全天 (8:30~11:00 , 14:00~17:00), 主楼接待厅。

理事会换届投票 : 11:00~12:00。

联合主办 :

国际粉体检测与控制联合会粉体工业委员会

中国建材联合会粉体技术分会

2016 年 11 月 18~20 日