

**8<sup>th</sup> International Exhibition-Congress on Chemical  
Engineering and Biotechnology**  
**第 8 届 国际化学工程和生物技术展览暨会议**

# **ACHEMASIA 2010**

**阿赫玛亚洲展**

**June 1 – 4, 2010, Beijing/PRC**  
**2010 年6月1日-4日, 北京**



## **Congress Programme**

**报告会日程**

**[www.achemasia.de](http://www.achemasia.de)**

## **Organizers**

DECHEMA  
Society for Chemical Engineering and Biotechnology e.V.

CIESC  
Chemical Industry and Engineering Society of China

## **Co-Organizer**

CIATA  
China Industry Anticorrosion Technology Association

## **Supporting Institutions**

National Development and Reform Commission (NDRC)  
China Association for Science and Technology (CAST)  
China Council for the Promotion of International Trade (CCPIT)  
China Petroleum and Chemical Industry Association (CPCIA)  
China National Petroleum Corporation (CNPC)  
SINOPEC China Petro-Chemical Corporation  
China National Offshore Oil Corporation (CNOOC)  
ChemChina China National Chemical Corporation  
China International Trust and Investment Corporation (CITIC)  
China National Chemical Construction Corporation (CNCCC)  
China National Center for Biotechnology Development (CNCBD)  
Chinese Society of Biotechnology (CSBT)  
China National Petroleum and Chemical Planning Institute (NPCPI)  
China National Textile and Apparel Council (CNTAC)  
China National Pharmaceutical Foreign Trade Corporation  
China National Chemical Information Center (CNCIC)  
Membrane Industry Association of China (MIAC)  
China National Convention Center (CNCC)  
Shanghai Society of Chemistry and Chemical Industry  
China National Technical Committee on Standardisation of Anticorrosion  
Society of Chemical Engineers, Japan  
Asian Pacific Confederation of Chemical Engineering (APCChe)  
Interamerican Confederation of Chemical Engineering  
GIFIC (French Association of Suppliers of the Chemical Industry)  
Association for Laboratory Automation (ALA)  
VDMA Verband Deutscher Maschinen- und Anlagenbau  
European Federation of Chemical Engineering  
European Federation of Biotechnology  
European Federation of Corrosion

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(\* Congress programme is a subject to change)

## **Congress Programme (as of May 25, 2010) / 科技报告会 (截至2010年5月25日)**

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The programme consists of  
科技报告会内容如下：

### Plenary and Keynote Lectures / 大会报告和主题报告

Leading scientists and industrialists give their view on trends in their field and business opportunities.

著名科学家和工业界人士报告各个领域的发展趋势和商机。

### Developments for Industrial Application / 工业应用的发展

Experts from industrial companies and academic research institutes, from China as well as from abroad give their view on technology and industrial application options. They will discuss about actual research, present innovative developments and introduce examples for technology implementation.

来自国内外的实业公司和学术研究机构的专家就技术和工业应用选择上提出了各自的观点。他们将针对科研现状、当前的创新发展以及引进技术的实施案例进行探讨。

### New Products and Services / 新产品和服务

Exhibitors of AICHEMASIA 2010 present recent technology developments and describe their service offers.

2010阿赫玛亚洲展参展商将展示他们最新技术的进展和提供的服务。

### Workshop / 专题研讨会

The workshop will address special issues in more details:

- Advanced Nickel and Titanium Alloys for the Process Industry  
Organizer: ThyssenKrupp VDM GmbH

专题研讨会将针对特设议题进行更深层次的探讨：

- 流程工业先进的镍钛合金

The congress events will take place in the direct vicinity to the exhibition hall. The plenary lectures and the New Products and Services session will take place in the Discussion Corner within the exhibition. Further details will be available in advance via internet [www.achemasia.de](http://www.achemasia.de)>>congress and posted at info-points in the exhibition area.

科技报告会的各项活动将在邻近展馆的地点举行。大会报告及新产品和服务会议将安排在展厅内的讨论区。更多详情，请登录 [www.achemasia.de](http://www.achemasia.de) 会议页面。

## Plenary Lectures / 大会报告一览

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**Tuesday, June 1, 2010 / 星期二, 2010年6月1日**

- 15.30      **Thoughts on the countermeasures to realize sustainable development of refining and petrochemical industry in China**  
中国炼油及石化工业可持续发展的对策思考  
X. Cao, 曹湘洪院士, China Petroleum & Chemical Corporation, Beijing/PRC
- 16.15      **Sustainable supply of energy and chemical feedstocks needs diversity**  
能源和化工原料多样化需求的可持续供给  
H.J. Wernicke, Süd-Chemie AG, Munich/D

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

- 11.45      **Ionic liquids and clean energy**  
离子液体与清洁能源  
S. Zhang, 张锁江博士, Institute of Process Engineering, Beijing/PRC
- 13.30      **Recent development of biorefineries in China**  
中国生物炼制行业的最新进展  
T. Tan, 谭天伟教授, Beijing University of Chemical Engineering/PRC

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

- 11.45      **Industrial water recycling – challenges and limitations**  
工业用水回收 – 挑战和局限性  
S.U. Geissen, Technical University of Berlin/D
- 13.30      **A chemical engineering view on climate and its protection**  
从化学工程的角度看气候及气候保护  
G. Kreysa, DECHEMA e.V., Frankfurt am Main/D

All plenary lectures will be simultaneously translated Chinese/English.  
所有大会报告均有同声传译。

## Keynote Lectures / 主题报告一览

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**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

Exhibition Hall, Level 2, Room E233 / 展览大厅二层, E233室

- 9.30            **Ionic liquid as efficient tool for processes and applications**  
离子液体作为流程和应用的有效工具  
U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

- 14.30           **From biorefinery concepts to reality – trends in Germany**  
德国生物炼制的构想到实际案例  
K. Wagemann, DECHEMA e.V., Frankfurt am Main/D

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

Exhibition Hall, Level 2, Room E231 / 展览大厅二层, E231 室

- 14.30           **Water use in energy production: the next challenge**  
能源生产中水的利用: 下一个挑战  
P. Tanguy, Total S.A., Paris/F

**Tuesday, June 1, 2010 / 星期二, 2010年6月1日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

14.00      **Opening Ceremony at Level 1, Foyer 展会开幕**

15.30      **Plenary Lecture / 大会报告**

*Chair / 主席: K. Wagemann, DECHEMA e.V., Frankfurt am Main/D*

**Thoughts on the countermeasures to realize sustainable development of refining and petrochemical industry in China**

中国炼油及石化工业可持续发展的对策思考

X. Cao, 曹湘洪院士, China Petroleum & Chemical Corporation, Beijing/PRC

16.15      **Plenary Lecture / 大会报告**

*Chair / 主席: X. Fan, ChemChina, Beijing/PRC*

**Sustainable supply of energy and chemical feedstocks needs diversity**

能源和化工原料多样化需求的可持续供给

H.J. Wernicke, Süd-Chemie AG, Munich/D

Wednesday, June 2, 2010 / 星期三, 2010年6月2日

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E233 / 展览大厅二层, E233室

## **Ionic Liquids** **离子液体**

Chair / 主席: U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC

- |             |   |
|-------------|---|
| 9.30        | <p><b>Keynote Lecture / 主题报告</b><br/><b>Ionic liquid as efficient tool for processes and applications</b><br/>离子液体作为流程和应用的有效工具<br/>U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC</p>  |
| 10.30       | <p><b>Supported Ionic Liquid Phase (SILP) materials in catalysis and separation technologies</b><br/>在催化、分离技术应用中的负载离子液体 (SILP) 原料<br/>M. Haumann, P. Wasserscheid, University of Erlangen-Nuremberg, Erlangen/D</p>   |
| 11.00-11.30 | <p><b>Reactivity and selectivity control in asymmetric hydrogenation reactions in CO<sub>2</sub>-expanded ionic liquids</b><br/>二氧化碳膨胀离子液体中不对称氢化反应的活性和选择性控制<br/>W. Li, T. Höfener, J. Klankermayer, W. Leitner, RWTH Aachen University/D</p>  |
| 11.45       | <p><b>Plenary Lecture / 大会报告</b><br/><b>(Level 1, Discussion Corner / 展厅一层, 论坛)</b><br/>Chair / 主席: U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC</p> <p><b>Ionic liquids and clean energy</b><br/>离子液体与清洁能源<br/>S. Zhang, 张锁江博士, Institute of Process Engineering, Beijing/PRC</p> |
| 12.30       | <p><b>Lunch Break / 午休</b></p>  |

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E233 / 展览大厅二层, E233室

**Ionic Liquids (continued)**

**离子液体 (续)**

*Chair / 主席: U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC*

13.30-  
14.15

**Plenary Lecture / 大会报告**

**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**

*Chair / 主席: K. Wagemann, DECHEMA e.V., Frankfurt am Main/D*

**Recent development of biorefineries in China**

中国生物炼制行业的最新进展

T. Tan, 谭天伟教授, Beijing University of Chemical Engineering/PRC

14.30

**Radiochemical stability of imidazolium-based ionic liquids under gamma irradiation**

咪唑类离子液体的伽马射线辐射稳定性研究

G. Wu, W. Huang, M. Qi, H. Fu, Shanghai Institute of Applied Physics/PRC

15.00

**Recent progress on industrial preparation of bis(fluorosulfonyl)imide salts and their application in ionic liquids**

双氟磺酰亚胺盐工业制备的研究以及在离子液体中的应用

K. Liu, H. Han, S. Feng, Y. Zhou, J. Nie, Huazhong University of Science and Technology, Wuhan/PRC; M. Armand, CNRS, Amiens/F; Z. Zhou, Huazhong University of Science and Technology, Wuhan/PRC

15.30

**Supercritical carbon dioxide technologies**

超临界二氧化碳技术

L. Stenmark, Chematur Engineering AB, Karlskoga/S

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

**Biotechnology**  
**生物技术**

Chair / 主席: *T. Tan, Beijing University of Chemical Engineering/PRC*

9.30            **Research on isolation, identification and degradation characteristics of acetochlor degradation bacterium**  
乙草胺降解菌的分离、鉴定及其降解特性研究  
*F. Wang*, Research Center for Eco-Environmental Sciences & Beijing University of Chemical Technology/PRC; *A. Lin*, Beijing University of Chemical Technology/PRC

10.00           **The influence of the carbon source on the formation of the carotenoidic pigment - torularhodin- in the yeast *Rhodotorula rubra***  
*C. Ungureanu*, *M. Ferdes*, *A.A. Chirvase*, University Politehnica of Bucharest/RO; *E. Mocanu*, The National Institute for Chemical Pharmaceutical Research and Development ICCF, Bucharest/RO

10.30           **The use of microchannel reactors for steroid biotransformation: *in-situ* product formation and recovery**  
在类固醇生物转化中微通道反应器的使用：原位形成和恢复  
*M.P.C. Marques*, *P. Fernandes*, *J.M.S. Cabral*, Instituto Superior Técnico (IBB), Lisboa/P; *P. Znidarsic-Plazl*, *I. Plazl*, University of Ljubljana/SLO

11.00-11.30      **Purification of biologicals and nutraceuticals using high performance chromatography resins**  
采用高性能层析树脂提纯生物制品和营养品纯化  
*P.K. Ng*, *M.A. Snyder*, Bio-Rad Laboratories, Hercules, CA/USA

11.45           **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
Chair / 主席: *U. Welz-Biermann*, China Ionic Liquid Laboratory (CHILL), Dalian/PRC

**Ionic liquids and clean energy**

离子液体与清洁能源

*S. Zhang*, 张锁江博士, Institute of Process Engineering, Beijing/PRC

12.30           **Lunch Break / 午休**

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

**Biotechnology (continued)**  
**生物技术 (续)**

Chair / 主席: *T. Tan, Beijing University of Chemical Engineering/PRC*

13.30- 14.15	<p><b>Plenary Lecture / 大会报告</b> <b>(Level 1, Discussion Corner / 展览大厅一层, 论坛)</b> <i>Chair / 主席: K. Wagemann, DECHEMA e.V., Frankfurt am Main/D</i></p> <p><b>Recent development of biorefineries in China</b> 中国生物炼制行业的最新进展 T. Tan, 谭天伟教授, Beijing University of Chemical Engineering/PRC</p>
14.30	<p><b>Keynote Lecture / 主题报告</b> <b>From biorefinery concepts to reality - trends in Germany</b> 德国生物炼制的构想到实际案例 K. Wagemann, DECHEMA e.V., Frankfurt am Main/D</p>
15.30	<p><b>Electrodialysis as unit operation in the continuous biotechnological production of itaconic acid out of green biomass</b> M. Gloede, T. Melin, RWTH Aachen University/D</p>
16.00	<p><b>New developments in lactic acid technology</b> 乳酸技术的新发展 W. Tietz, J. Schulze, Uhde GmbH, Leipzig/D</p>

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E231 / 展览大厅二层, E231室

**Clean Energy and Sustainable Production**  
**清洁能源和可持续生产**

*Chair / 主席: X. Yang, Beijing University of Chemical Technology/PRC*

9.30           **Meeting Asia's clean energy demand with PRENFLO coal gasification for CTL and IGCC**  
满足亚洲清洁能源的需求, 用于煤制油 (CTL) 和整体煤气化联合循环 (IGCC) 的普伦弗洛 (PRENFLO) 粉煤气化技术  
K. Radtke, Uhde GmbH, Dortmund/D

10.00           **CO<sub>2</sub> capture in IGCC system by novel physical absorbents**  
采用新型物理吸收剂从IGCC系统中捕集CO<sub>2</sub>  
D. Zheng, L. Dong, X. Du, X. Wu, Beijing University of Chemical Technology/PRC

10.30           **Süd-Chemie's catalytic technologies for coal to energy & chemicals**  
德国南方化学公司用于煤、能源和化工的催化技术  
X. Hu, Süd-Chemie China, Shanghai/PRC; L. Xu, Süd-Chemie AG, Munich/D

11.00-11.30       **Case study of climate check for chemical industries**  
拜耳气候检测工具在化工行业应用案例  
H. Huang, D. Heinz, B. Li, Bayer Technology and Engineering (Shanghai) Co., Ltd./PRC; H. Kahnis, Bayer Technology Services GmbH, Leverkusen/D

11.45           **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair / 主席: U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC*

**Ionic liquids and clean energy**  
离子液体与清洁能源  
S. Zhang, 张锁江博士, Institute of Process Engineering, Beijing/PRC

12.30           **Lunch Break / 午休**

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E231 / 展览大厅二层, E231室

**Clean Energy and Sustainable Production (continued)**  
**清洁能源和可持续生产 (续)**

Chair / 主席: X. Yang, Beijing University of Chemical Technology/PRC

13.30-  
14.15

**Plenary Lecture / 大会报告**

**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**

Chair / 主席: K. Wagemann, DECHEMA e.V., Frankfurt am Main/D

**Recent development of biorefineries in China**

中国生物炼制行业的最新进展

T. Tan, 谭天伟教授, Beijing University of Chemical Engineering/PRC

14.30

**Modular microreaction system - high performance flow chemistry for R&D and production**

高效连续化工过程 - 模块化微反应系统在研发和生产中的应用

T. Liu, D. Heinz, Bayer Technology and Engineering (Shanghai) Co. Ltd./PRC; S. Buchholz, K. Tellmann, L. Mleczko, Bayer Technology Services GmbH, Leverkusen/D

15.00

**Effect of reaction condition for autothermal reforming of the simulated biogas to syngas**

反应条件对模拟生物沼气自热重整制合成气的影响

D. Sun, X. Li, S. Ji, L. Cao, Beijing University of Chemical Technology/PRC

15.30

**Vapor-liquid equilibria study and process energy integration for ethylene recovery from refinery gas**

炼厂气中乙烯回收的汽液相平衡与过程能量集成

D. Zheng, J. Guo, X. Wu, W. Deng, Beijing University of Chemical Technology/PRC

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

*Chair /主席: H. Qian, Chemical Industry and Engineering Society of China/PRC*

- 9.30           **Reduction of significant utilities consumption by innovative heat integration between chlorine and EDC processes**  
通过革新氯和二氯乙烷生产流程之间的热集成降低重大公用事业的消耗  
M. Kleiber, Uhde GmbH, Bad Soden/D
- 9.45           **Uhde innovative plant solutions to use raw materials and energy sources more efficiently**  
伍德公司创新解决方案 — 更有效地利用原料和能源  
B. Leistenschneider, Uhde Beijing Representative Office/PRC
- 10.00          **Inotec - a revolutionary new technology for low emission metal casting**  
Inotec — 革命性的低排放金属铸造新技术  
M. Arndt-Rosenau, J. Brotzki, J. Müller, Ashland-Südchemie-Kernfest GmbH, Hilden/D; H.-C. Saewert, WD-Gießereitechnik GmbH, Fuldabrück-Bergshausen/D
- 10.15          **Environmental protection and energy saving with a new generation of dry screw pumps**  
新一代环保节能的干式螺杆泵  
P. Littlewood, Busch Vacuum (Shanghai) Co., Ltd./PRC
- 10.30          **UHDENORA S.p.A. leading industrial electrochemistry through innovation**  
UHDENORA SpA , 富于创新的工业电化学领导者  
A. Delfrate, R. Cao, UHDENORA S.p.A., Milan/I
- 10.45          **Oschatz incineration and boiler systems for high performance heat recovery**  
欧萨斯高效热回收焚烧和锅炉系统  
A. Albrecht, Oschatz GmbH, Essen/D
- 11.00-  
11.15          **The application of Zirconium and Zirconium alloys for use in organic media**  
锆和锆合金在有机介质中的应用  
R. Sutherlin, ATI Wah Chang, Albany, OR/USA

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

*Chair /主席: H. Qian, Chemical Industry and Engineering Society of China/PRC*

- 11.45 **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair /主席: U. Welz-Biermann, China Ionic Liquid Laboratory (CHILL), Dalian/PRC*
- Ionic liquids and clean energy**  
离子液体与清洁能源  
S. Zhang, 张锁江博士, Institute of Process Engineering, Beijing/PRC
- 12.30 **Lunch Break / 午休**
- 13.30-  
14.15 **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair /主席: K. Wagemann, DECHEMA e.V., Frankfurt am Main/D*
- Recent development of biorefineries in China**  
中国生物炼制行业的最新进展  
T. Tan, 谭天伟教授, Beijing University of Chemical Engineering/PRC
- 14.30 **Partnership project with Chinese API manufacturer**  
中国 API 制造商合作项目  
M. Giovinazzi, Janssen Pharmaceuticals (part of J&J group), Geel/B
- 14.45 **Post-merger integration and operational excellence in multinational operations (in China)**  
并购后整合以用跨国经营的优化运营 (在中国)  
D. Maass, Management Engineers GmbH & Co. KG, Duesseldorf/D
- 15.00 **Long term relationship between owner/operator and engineering contractor, a look from both sides**  
从各方的角度看所有者、运营商和工程承包商之间的长期关系  
B. Riedel, Degussa Evonik (China) Company Ltd., Beijing/PRC; M. Silva, MaisonWorleyParsons, Beijing/PRC
- 15.15 **Tailored maintenance services for industrial plants**  
个性化工业设备维修服务  
O. Kos, Uhde Services GmbH, Halter am See/D

**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

*Chair / 主席: H. Qian, Chemical Industry and Engineering Society of China/PRC*

- 15.30      **The study on the analysis method for determination of 417-F phosphate-free corrosion by HPLC**  
高效液相色谱法测定417-F型无磷缓蚀剂的方法研究  
Y. Wu, C. Wang, L. Qi, L. Tao, J. Chen, CNOOC Tianjin Chemical Research and Design Institute/PRC
- 15.45      **Production automation and control in the fine chemical industry**  
精细化工生产自动化和控制  
P. Paap, Vanwyk Systems B.V., Oldenzaal/NL
- 16.00      **Simplified calibration and validation in TOC and COD measurement - precise TOC measuring in condensate, boiler feed water, and further industrial applications**  
简化TOC和COD测定的校准和验证 — TOC  
精确测定在冷凝、锅炉给水和更多工业方面的应用  
W. Arts, LAR Process Analysers AG, Berlin/D; F. Yang, LAR Process Analysers (Hangzhou) Co., Ltd./PRC
- 16.15      **On-line COD measurement without second pollution**  
无二次污染的在线 COD 测定  
W. Arts, LAR Process Analysers AG, Berlin/D; F. Yang, LAR Process Analysers (Hangzhou) Co., Ltd./PRC
- 16.30      **Process water treatment by dryer heated evaporators**  
干燥器废热加热的蒸发器用于处理工艺水  
W. Hansen, GEA Wiegand GmbH, Ettlingen/D
- 16.45      **Gas scrubbing plants for process and environmental technology**  
气体洗涤设备用于工艺和环保技术  
W. Hansen, GEA Wiegand GmbH, Ettlingen/D

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232A / 展览大厅二层, E232A 室

**Catalytic Processes**  
**催化流程**

*Chair / 主席: D. Hong, SINOPEC Science and Technology Committee/PRC*

- 9.30            **Preparation of sodium salt-Mn/SiO<sub>2</sub>/cordierite monolithic catalysts and their performances for oxidative coupling of methane**  
钠盐-Mn/SiO<sub>2</sub>/堇青石整体式催化剂的制备及其甲烷氧化偶联反应性能  
W. Wang, S. Ji, D. Pan, Beijing University of Chemical Technology/PRC
- 10.00            **The difference of catalytic activity over nickel phosphide powder and monolithic catalysts for hydrodesulfurization**  
加氢脱硫过程中磷化镍和整体式催化剂的催化性能差异  
Y. Guo, P. Zeng, S. Ji, N. Wei, H. Liu, C. Li, Beijing University of Chemical Technology/PRC
- 10.30-11.00      **Optimization of catalytic materials and technologies for sustainable development**  
优化催化材料和可持续发展技术  
J. Margitfalvi, L. Végvári, Combitech-Nanotech Kft., Budapest/H;  
A. Tompos, Hungarian Academy of Sciences, Budapest/H
- 11.45            **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair / 主席: NN*  
**Industrial water recycling – challenges and limitations**  
工业用水回收 — 挑战和局限  
S.U. Geissen, Technical University of Berlin/D
- 12.30            **Lunch Break / 午休**

Thursday, June 3, 2010 / 星期四, 2010年6月3日

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232A / 展览大厅二层, E232A 室

**Catalytic Processes (continued)**  
**催化流程 (续)**

Chair / 主席: D. Hong, SINOPEC Science and Technology Committee/PRC

13.30-  
14.15

**Plenary Lecture / 大会报告**

**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**

Chair / 主席: W. Meier, DECHEMA e.V. Frankfurt am Main/D

**A chemical engineering view on climate and its protection**

从化学工程的角度看气候及气候保护

G. Kreysa, DECHEMA e.V., Frankfurt am Main/D

14.30

**The Evonik-Uhde-HPPO process for propylene oxide production - first successful commercial scale plant implementation**

赢创—伍德—HPPO的环氧丙烷生产工艺 —

首次获得成功的大规模设备安装启用

M. Kleiber, Uhde GmbH, Bad Soden/D; B. Kolbe, Uhde GmbH, Dortmund/D; N. Bredemeyer, Uhde GmbH, Ennigerloh/D; N. Ullrich, Uhde GmbH, Dortmund/D; B. Jaeger, M. Bärz, Evonik Industries, Hanau/D

15.00

**The study of automatic micro-reactor for catalyst evaluation**

全自动微型催化剂评价装置的研制

F. Cai, J. Wang, B. Wang, Shandong Academy of Sciences, Jinan/PRC

15.30

**Visualization of multi-dimensional experimental spaces - different case studies in combinatorial catalysis research**

可视化多维实验空间 — 组合催化研究中的不同案例分析

J. Margitfalvi, L. Végvári, Combitech-Nanotech Kft., Budapest/H;

A. Tompos, Hungarian Academy of Sciences, Budapest/H

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

**Laboratory Automation**  
**实验室自动化**

organised in cooperation with



*Chair /主席: D. Ho, Northwestern University, Evanston, IL/USA*

- 9.30        **Microengineered hydrogels for tissue engineering and stem cell bioengineering**  
组织工程和生物干细胞工程的微结构水凝胶  
A. Khademhosseini, Harvard-Massachusetts Institute of Technology, Cambridge, MA/USA
- 10.00       **Nanodiamond-based chemotherapeutic delivery platforms**  
纳米金刚石化疗药释放系统  
D. Ho, Northwestern University, Evanston, IL/USA
- 10.30       **Microfluidic acoustically-activated air-liquid cavities for on-chip integration of sample preparation and sample detection**  
A. Lee, A. Tovar, Y. Okabe, M. Patel, University of California, Irvine, CA/USA
- 11.00-11.30   **RainDance Technologies - multiplexing assays with droplet libraries**  
D. Link, RainDance Technologies, Lexington, MA/USA
- 11.45       **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair /主席: NN*
- Industrial water recycling – challenges and limitations**  
工业用水回收 — 挑战和局限  
S.U. Geissen, Technical University of Berlin/D
- 12.30       **Lunch Break / 午休**

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

**Laboratory Automation (continued)**  
**实验室自动化 (续)**

Chair / 主席: D. Ho, Northwestern University, Evanston, IL/USA

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| 13.30-14.15 | <p><b>Plenary Lecture / 大会报告</b><br/><b>(Level 1, Discussion Corner / 展览大厅一层, 论坛)</b><br/>Chair / 主席: W. Meier, DECHEMA e.V. Frankfurt am Main/D</p> <p><b>A chemical engineering view on climate and its protection</b><br/>从化学工程的角度看气候及气候保护<br/>G. Kreysa, DECHEMA e.V., Frankfurt am Main/D</p> |
| 14.30       | <p><b>Development of mass spectrometry technologies for fast and autonomous chemical analysis</b><br/>快速分析质谱技术发展及应用<br/>Z. Ouyang, R.G. Cooks, J. Liu, H. Wang, G. Huang, N.E. Manicke, Purdue University, West Lafayette, IN/USA</p>  |
| 15.00       | <p><b>Rapid chemical detection and identification with a hand held device</b><br/>用手持设备快速进行化学检测和鉴定<br/>G. Kaigala, J. Santiago, M. Bercovici, S.S. Bahga, Stanford University, CA/USA; M. Behnam, D. Elliott, C.J. Backhouse, University of Alberta, Edmonton/CDN</p>                              |
| 15.30       | <p><b>A 5-in-1 bioprocessor for electrokinetic sample preparation and electrochemical detection</b><br/>P.K. Wong, M.L.Y. Sin, H.C. Chen, Y. Lu, University of Arizona, Tucson, AZ/USA; V. Gau, GeneFluidics Inc., Monterey Park, CA/USA; J.C. Liao, Stanford University, CA/USA</p>               |
| 16.00       | <p><b>Exploring energy and environmental applications of carbon nanotubes</b><br/>探索碳纳米管在能源和环境方面的应用<br/>A. Cao, Peking University/PRC</p>  |

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E231 / 展览大厅二层, E231室

**Industrial Water Treatment**  
**工业水处理**

*Chair / 主席: S.U. Geissen, Technical University of Berlin/D*

- 9.30            **Research on ammonia-nitrogen wastewater treatment by modified biological aerated filter**  
改进曝气生物滤池处理氨氮废水的试验研究  
H. Zhao, C. Xie, H. Teng, S. Zheng, J. Chen, CNOOC Tianjin Chemical Research & Design Institute/PRC; S. Fu, Z. Shan, X. Ke, China  
BlueChemical Ltd., Hainan/PRC
- 10.00           **Application of concentration and separation of adsorption - biochemical combined process in industrial organic wastewater treatment**  
吸附浓缩分离—生物再生组合工艺在工业有机废水处理中的应用  
X. Gu, H. Teng, S. Zheng, J. Chen, CNOOC Tianjin Chemical Research & Design Institute/PRC; J. Zhou, Dalian University of Technology/PRC; L. Li, Z. Huang, CNOOC Tianjin Chemical Research & Design Institute/PRC
- 10.30           **Industrial wastewater technology-tailor-made concepts and economic implementation across the globe**  
拜耳工业废水处理技术 - 量身定做, 受益全球  
S. Weng, J. Xiumei, D. Heinz, Bayer Technology and Engineering (Shanghai) Co., Ltd./PRC; T. Erwe, D. Ulrich, Bayer Technology Services GmbH, Leverkusen/D
- 11.00-11.30      **Value creation through water treatment in key growth industries**  
在高增长重点行业通过废水处理创造价值  
R. Elisio, R. Hodgson, A. Opperman, C. Riemer, Süd-Chemie Water & Process Technologies (Pty) Ltd., Chloorkop/ZA
- 11.45           **Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair / 主席: NN*  
**Industrial water recycling – challenges and limitations**  
工业用水回收 — 挑战和局限  
S.U. Geissen, Technical University of Berlin/D
- 12.30           **Lunch Break / 午休**

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E231 / 展览大厅二层, E231室

**Industrial Water Treatment (continued)**  
**工业水处理 (续)**

Chair / 主席: S.U. Geissen, Technical University of Berlin/D

13.30-  
14.15

**Plenary Lecture / 大会报告**

**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**

Chair / 主席: W. Meier, DECHEMA e.V. Frankfurt am Main/D

**A chemical engineering view on climate and its protection**

从化学工程的角度看气候及气候保护

G. Kreysa, DECHEMA e.V., Frankfurt am Main/D

14.30

**Keynote Lecture / 主题报告**

**Water use in energy production: the next challenge**

能源生产中水的利用：下一个挑战

P. Tanguy, J.-F. Minster, Total S.A., Paris/F

15.30

**Hydrogen production from lower concentration formaldehyde wastewater over Cu/Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub> core-shell catalysts**

Cu/Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>核-壳催化剂上低浓度甲醛废水制氢的研究

J. Ji, S. Ji, W. Yang, H. Liu, Beijing University of Chemical Technology/PRC

16.00

**Research on inhibition performance of a new fatty amide derivative inhibitor in circulation cooling water**

新型脂肪酰胺类缓蚀剂在循环冷却水中的缓蚀性能研究

L. Tao, C. Wang, L. Qin, Y. Wu, J. Chen, CNOOC Tianjin Research and Design Institute of Chemical Industry/PRC

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

*Chair /主席: H. Qian, Chemical Industry and Engineering Society of China/PRC*

- 9.30           **Continuous innovation in centrifuge technology**  
不断创新的离心机技术  
L. Meister, J. Glarner, Ferrum AG, Ruppertswil/CH
- 9.45           **Achieving maximum containment whilst retaining a high degree of flexibility using vertical basket bottom discharge centrifuges**  
使用垂篮式底部卸料离心机达到最大容积, 同时保持高度灵活性  
L. Meister, J. Glarner, Ferrum AG, Ruppertswil/CH
- 10.00          **BECOPAD. A new dimension of depth filtration**  
BECOPAD, 深层过滤的新思路  
H. Liu, Shanghai Jiao Tong University/PRC
- 10.15          **Tower internals for gas cleaning processes and multi-purpose chemical batch distillations**  
烟气清洁工艺和多用途化学间歇精馏塔内件  
W. Geipel, M. Lehner, U. Franz, RVT Process Equipment GmbH, Steinwiesen/D
- 10.30          **Successful scale-up of microstructured reactors for production purpose using brazing technique**  
应用钎焊技术生产中的微反应器成功放大  
B. Werner, P. Löb, T. Illg, C. Schütt, C. Hofmann, V. Hessel, Institut für Mikrotechnik Mainz GmbH/D
- 10.45-11.00    **Innovative cleaning technologies in the pharmaceutical and food industries**  
制药和食品工业的创新清洁技术  
H. Lutz, Lechler GmbH, Metzingen/D
- 11.45          

**Plenary Lecture / 大会报告**  
**(Level 1, Discussion Corner / 展览大厅一层, 论坛)**  
*Chair /主席:*

**Industrial water recycling – challenges and limitations**  
工业用水回收 — 挑战和局限  
S.U. Geissen, Technical University of Berlin/D
- 12.30          **Lunch Break / 午休**

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

Chair /主席: H. Qian, Chemical Industry and Engineering Society of China/PRC

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|-------------|---|
| 13.30-14.15 | <p><b>Plenary Lecture / 大会报告</b><br/><b>(Level 1, Discussion Corner / 展览大厅一层, 论坛)</b><br/>Chair /主席: W. Meier, DECHEMA e.V. Frankfurt am Main/D</p> <p><b>A chemical engineering view on climate and its protection</b><br/>从化学工程的角度看气候及气候保护<br/>G. Kreysa, DECHEMA e.V., Frankfurt am Main/D</p> |
| 14.30       | <p><b>Microwave drying in high-end technology</b><br/>高端微波干燥技术<br/>P. Pueschner, Pueschner GmbH + Co. KG, Schwanewede/D</p>   |
| 14.45       | <p><b>AchemAsia Congress Syllabus in 2010</b><br/>2010 阿赫玛亚洲展会议纲要<br/>C. Wang, L.B.T.(Shanghai) Laboratory Equipment Co., Ltd./PRC</p>  |
| 15.00       | <p><b>Innovation activity in Russia in the field of science, technique and technology</b><br/>俄罗斯在科学、工艺与技术领域的创新活动<br/>T. Golashvili, P. Shchedrovitsky, I. Leshukov, V. Olkhov, M. Mulyukov, ENPRAN Joint Stock Company (Energy &amp; Industry Analytica), Moscow/RUS</p>                         |
| 15.15       | <p><b>Improved economics in production and processing of PET resin with MTR<sup>®</sup> technology</b><br/>用MTR<sup>®</sup>工艺生产加工聚酯树脂过程中提高经济效益<br/>M. Schircks, Uhde Inventa-Fischer AG, Domat/CH; A. Grundmann, Uhde Inventa-Fischer GmbH, Berlin/D</p>  |
| 15.30       | <p><b>Electronic documentation increases the effectiveness of plants - Goodbye to the paperwork mountains</b><br/>电子文档提高了工厂的效能 — 告别堆积如山的文书工作<br/>M. Dubovy, Rösberg Engineering GmbH, Karlsruhe/D</p>   |
| 15.45       | <p><b>Application and benefits of simulation in process automation</b><br/>模拟在自动化流程中的应用与效益<br/>O. Lorenz, Siemens AG, Karlsruhe/D; J. Hess, Siemens AG, Frankfurt am Main/D</p>   |

**Thursday, June 3, 2010 / 星期四, 2010年6月3日**

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Exhibition Hall, Level 1, Discussion Corner / 展览大厅一层, 论坛

**New Products and Services / 新产品和服务**

*Chair /主席: H. Qian, Chemical Industry and Engineering Society of China/PRC*

- 16.00      **Advanced process control in distributed control systems - requirements, methods and tools, illustrated by industrial examples**  
用工业实例说明集散控制系统中的高级流程控制 — 必备条件、方法和工具  
O. Lorenz, B.-M. Pfeiffer, Siemens AG, Karlsruhe/D
- 16.15      **Innovative project approach in pharmaceutical industry**  
制药工业的创新项目计划  
T. Jaskolski, M+W Singapore Pte. Ltd./SGP
- 16.30      **In-line flame arrester application limits for flashback protection from thermal combustion units considering the new ISO 16852 Standard**  
ISO16852关于使用在焚烧系统中的管道阻火器的应用规范  
Y. Zhang, T. Hembach, Protego China, Shanghai/PRC
- 16.45      **Advancements in fluoropolymer lined piping systems**  
衬氟管道系统的发展  
D. Yanik, Crane ChemPharma Flow Solutions, Cincinnati, OH/USA;  
M. Poh, Crane ChemPharma Flow Solutions Singapore/SGP

**Friday, June 4, 2010 / 星期五, 2010年6月4日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232A / 展览大厅二层, E232A 室

**Advanced Materials**  
**先进材料**

*Chair / 主席: X. Yong, Beijing University of Chemical Technology/PRC*

10.00      **Effects of filler contents and types on thermal stability of highly filled wood/PP composites**

木纤维颗粒填充比例与类型对高填充比木材/聚丙烯复合材料热稳定性能的影响  
L. Xie, Clausthal University of Technology/D; T. Grueneberg, University of Goettingen/D; S. Kirchberg, L. Steuernagel, G. Ziegmann, Clausthal University of Technology/D; H. Miltz, University of Goettingen/D

10.30      **Effect of cetyltrimethylammonium bromide dispersant on the fabrication process of titania coatings on ZnS-type phosphors by a sol-gel method**

溶胶-凝胶法在硫化锌荧光粉表面包覆二氧化钛薄膜过程中十六烷基三甲基溴化铵分散剂的影响  
J. Yuan, M. Yang, Beijing University of Chemical Technology/PRC

11.00      **Membrane-based removal of sulfur aromatic compounds from jet fuel**

采用膜基脱除喷气燃料中含硫芳香族化合物  
R. Konietzny, I. Bettermann, C. Staudt, University of Duesseldorf/D

**Friday, June 4, 2010 / 星期五, 2010年6月4日**

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Developments for Industrial Application / 工业应用的发展

Exhibition Hall, Level 2, Room E232B / 展览大厅二层, E232B 室

**Process Control**  
**流程控制**

*Chair / 主席: Z. Ouyang, Purdue University, West Lafayette, IN/USA*

- 10.00      **H<sub>2</sub>S and CS<sub>2</sub> analysis for gas emission control in a paper mill**  
造纸厂硫化氢和二硫化碳气体排放控制分析  
F. Amiet, M. Robert, Chromatotec Group, Saint-Antoine/F
- 10.30      **Miniaturization at retained performance: FT-IR spectroscopic quality control by hand-held instrumentation**  
在保持性能前提下小型化：用手持式傅里叶红外光谱仪进行质量控制  
H. Siesler, University of Duisburg-Essen, Essen/D
- 11.00      **A multiphase based method for batch process monitoring**  
间歇过程监控多相方法  
Y. Meng, W. Sun, Beijing University of Chemical Technology/PRC
- 11.30      **A multi-scale statistical method for process monitoring**  
流程监控的多尺度统计方法  
Y. Liu, W. Sun, Beijing University of Chemical Technology/PRC

## Workshop / 研讨会

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**Wednesday, June 2, 2010 / 星期三, 2010年6月2日**

Exhibition Hall, Level 2, Room E232A / 展览大厅二层, E232A 室

### **ThyssenKrupp VDM Customer Day - Advanced Nickel and Titanium Alloys for the Process Industry - 流程工业先进的镍钛合金**

ThyssenKrupp VDM GmbH is a leading manufacturer of high-performance nickel alloys, high-alloy stainless steels, Titanium and Zirconium. These high-performance materials play a vital role in the chemical process industry, in power generation and in maritime technology. The workshop is intended as a contribution to the progress of our customers providing a platform for a broad exchange of information and experience.

- 9.30            **TK VDM Company Presentation**  
D. Wang, ThyssenKrupp VDM Hong Kong Ltd./PRC
- 10.00          **Corrosion resistant Nickel and Titanium alloys for CPI and related applications - an overview**  
H. Alves, ThyssenKrupp VDM GmbH, Werdohl/D
- 
- 11.00          Coffee Break
- 
- 11.30          Guest Presentation Chemical Industry  
**Nickel alloys for safe handling of highly corrosive media**  
G.B. Rao, B. Schreieck, BASF China Co. Ltd., Beijing/PRC and  
J. Korkhaus, BASF SE, Ludwigshafen/D
- 12.15          **Nickel alloys for the energy of the future**  
J. Klöwer, ThyssenKrupp VDM GmbH, Altena/D
- 
- 13.00          Lunch
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- 14.00          Guest Presentation Chemical Industry  
**The application of alloy 59 in a acetic anhydride project**  
X. Zhang, Shanghai Coking and Chemical Co. Ltd./PRC
- 14.45          **Fabrication and welding of high performance Nickel and Titanium alloys**  
M. Wolf, ThyssenKrupp VDM GmbH, Altena/D
- 15:45          Discussion (open end)

(All presentations of this workshop will be translated English-Chinese and Chinese-English.)

## Guest Event / 特约活动

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**Wednesday, June 2 -- Thursday, June 3, 2010**

Exhibition Hall, Level 2, Room E235 + E236A+B

### **2010 Pharmaceutical Engineering International Forum**

German Vogel Media's magazine PROCESS and DECHEMA e.V. will jointly hold the 2010 Pharmaceutical Engineering International Forum from June 2-3, 2010 at China National Convention Center (CNCC), Beijing.

Officials from U.S. FDA, EU EMEA, SFDA and experts from global pharmaceutical engineering field will be invited to the Forum which is divided into four branch forums about Validation, Aseptic Production, Project Management and GAMP 5. The Officials and experts will make exploration about GMP laws and regulations, engineering philosophy, project management experiences and cases of typical engineering projects, and share with audiences their experiences in engineering and cases of latest projects in the Asian-Pacific area.

Sponsors strive one unprecedented grand meeting for global pharmaceutical engineering elite and also an open platform for global value sharing and information exchange specially designed for pharmaceutical engineering people.

#### **2010制药工程国际论坛**

由德国弗戈工业媒体PROCESS《流程工业》杂志、德国德西玛-化学工程与生物技术协会主办的“2010制药工程国际论坛”将于6月2~3日在北京“国家会议中心”召开。

本届论坛将邀请美国FDA、欧盟EMEA、我国SFDA的官员以及全球制药工程领域的专家，从GMP法规、工程理念、项目管理经验、典型工程项目案例等方面与现场听众进行交流、探讨。同时设立“验证”、“无菌生产”、“项目管理”、“GAMP 5”四大分论坛，与听众分享工程经验，以及最新项目案例。

主办方力求为制药工程人士打造的全球价值分享和信息交流的开放式平台，本届论坛必将成为一次全球“制药工程精英阶层”的盛会。

## Traffic Links / 交通图

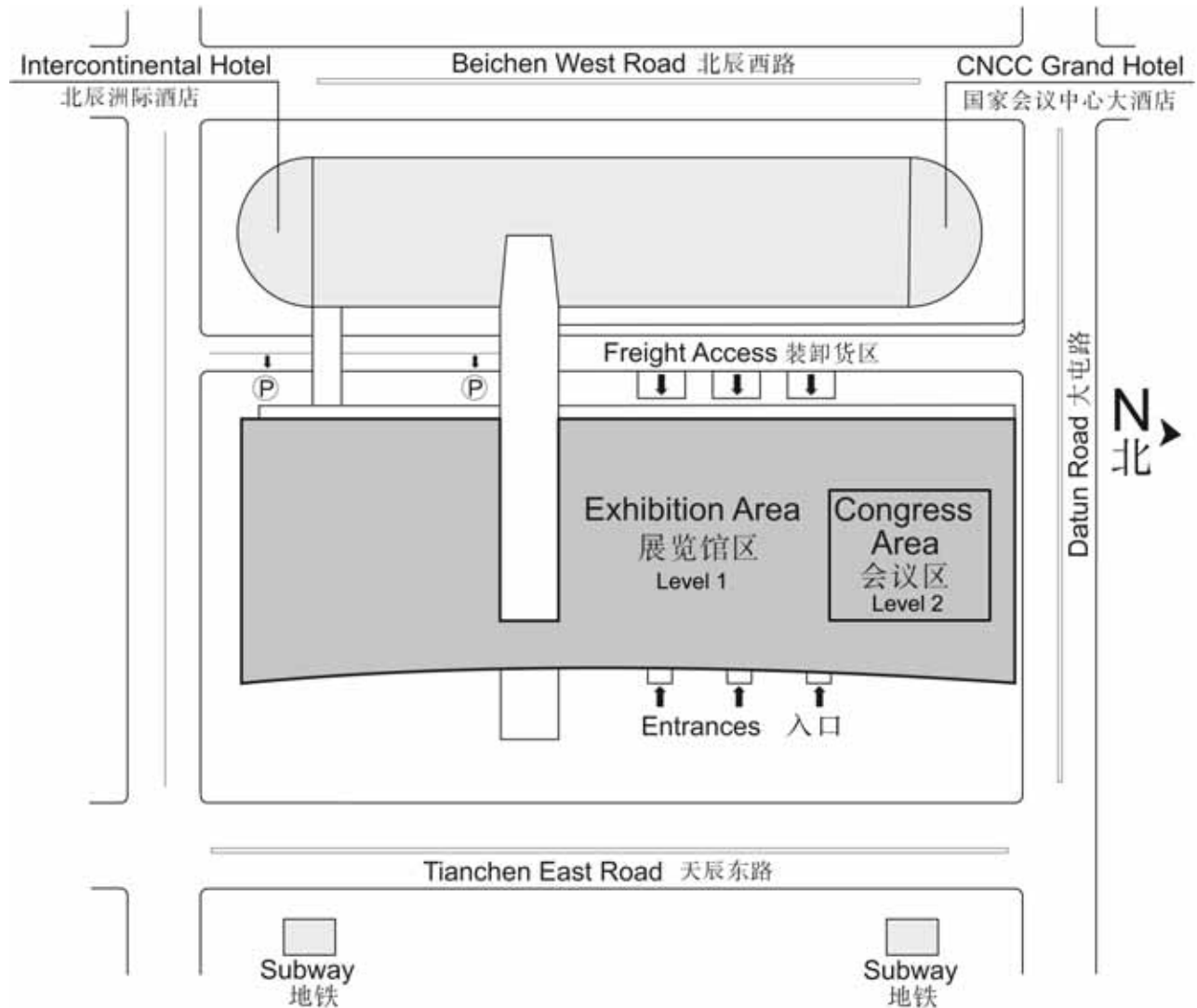


CNCC China National Convention Center  
No. 7 Tianchen East Road  
Chaoyang District  
100105 Beijing, PR China

### Opening Hours for Visitors

1 June	14.00 - 17.00
2 - 3 June	09.00 - 17.00
4 June	09.00 - 12.30

## Plan of Exhibition Grounds and Congress Office 展览大厅平面图与会议办公室



### Congress Office / 会议办公室

CNCC China National Convention Center  
No. 7 Tianchen East Road  
Chaoyang District, Beijing, PR China  
Congress Office (Exhibition Hall, Level 2, Room E238)  
中国国家会议中心  
北京市朝阳区天辰东路7号  
会议办公室 (展览大厅二层, E238室)  
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Tuesday, June 1, 2010	
14:00	Opening
15:30	<b>Discussion Corner / Chair: K. Wagemann</b> <b>Plenary Lecture I:</b> Thoughts on the countermeasures to realize sustainable development of refining and petrochemical industry in China X. Cao, China Petroleum & Chemical Corporation, Beijing/PRC
16:15 - 17:00	<b>Discussion Corner / Chair: X. Fan</b> <b>Plenary Lecture II:</b> Sustainable supply of energy and chemical feedstocks needs diversity H.J. Wernicke, Süd-Chemie AG, Munich/D
17:00	End of Conference Day

Wednesday, June 2, 2010					
	E-233 Chair: U. Welz-Biermann	E-232B Chair: T. Tan	E-231 Chair: X. Yang	Discussion Corner Chair: H. Qian	E-232A
09:30	<b>Keynote Lecture</b> Ionic Liquids	Biotechnology	Clean Energy and Sustainable Production	New Products and Services	<b>Workshop</b> Advanced Nickel and Titanium Alloys for the Process Industry
11:45	<b>Discussion Corner / Chair: U. Welz-Biermann</b> <b>Plenary Lecture III:</b> Ionic liquids and clean energy S. Zhang, Institute of Process Engineering, Beijing/PRC				
12:30	Lunch break				
13:30 - 14:15	<b>Discussion Corner / Chair: K. Wagemann</b> <b>Plenary Lecture IV:</b> Recent development of biorefineries in China T. Tan, Beijing University of Chemical Engineering/PRC				
14:30	Ionic Liquids	<b>Keynote Lecture</b> Biotechnology	Clean Energy and Sustainable Production	New Products and Services	<b>Workshop</b> Advanced Nickel and Titanium Alloys for the Process Industry
16:30	End of Conference Day				

Thursday, June 3, 2010					
	E-232A Chair: D. Hong	E-232B Chair: D. Ho	E-231 Chair: S.U. Geissen	Discussion Corner Chair: H. Qian	
09:30	Catalytic Processes	Laboratory Automation	Industrial Water Treatment	New Products and Services	
11:45	<b>Discussion Corner / Chair: T. Track</b> <b>Plenary Lecture V:</b> Industrial water recycling – challenges and limitations S.U. Geissen, Technical University of Berlin/D				
12:30	Lunch break				
13:30 - 14:15	<b>Discussion Corner / Chair: W. Meier</b> <b>Plenary Lecture VI:</b> A chemical engineering view on climate and its protection G. Kreysa, DECHEMA e.V., Frankfurt am Main/D				
14:30	Catalytic Processes	Laboratory Automation	<b>Keynote Lecture</b> Industrial Water Treatment	New Products and Services	
16:30	End of Conference Day				

Friday, June 4, 2010					
	E-232A Chair: X. Yong	E-232B Chair: Z. Ouyang			
10:00	Advanced Materials	Process Control			
12:00	End of Conference				