



**4<sup>th</sup> International Symposium on Pesticide and Environmental Safety**

**5<sup>th</sup> Pan Pacific Conference on Pesticide Science**

**8<sup>th</sup> International Workshop on Crop Protection Chemistry and  
Regulatory Harmonization**

## **Program**

Beijing, China

September 15<sup>th</sup> -20<sup>th</sup>, 2012

<http://www.2012iupac.com>

## Sponsorship and Support

### Hosts

**Beijing Pesticide Society (BPS)**

**International Union of Pure and Applied Chemistry (IUPAC)**

**Pesticide Science Society of Japan (PSSJ)**

**China Agricultural University (CAU)**

**Institute for the Control of Agrochemicals, Ministry of Agriculture, China (ICAMA)**

### Sponsors

**Ministry of Agriculture, China**

**Ministry of Education, China**

**National Natural Science Foundation of China**

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**China Association for Science and Technology**

**Beijing Association for Science and Technology**

**Institute of Zoology, Chinese Academy of Sciences, China**

**Institute of Plant Protection, Chinese Academy of Agricultural Sciences, China**

**Crop Protection Machinery and Application Technology Division of China Society of Plant Protection**

**The organizing committee wishes to thank the following  
companies and units**

**Sinochem Agro Co., Ltd.**

**Nutrichem Co., Ltd.**

**Bayer CropScience (China) Co., Ltd.**

**The Pesticide Factory of Institute of Plant Protection, Chinese Academy of  
Agricultural Sciences**

**Agrochemicals Division of American Chemical Society (ACS)**

**BASF - The Chemical Company - Ludwigshafen, Germany**

**Dow AgroSciences - Indianapolis, USA**

**Syngenta - Basel, Switzerland**

**CropLife International - Brussels, Belgium**

**Nissan Chemical Industries, Japan**

**SDS Biotech KK, Japan**

**Kumiai Chemical Industry, Japan**

**Nippon Soda Co., Ltd., Japan**

**Nanjing Institute for Agriculture Mechanization, Ministry of Agriculture, China**

**Jiangsu University, China**

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## Welcome Message

Ladies and gentlemen,

On behalf of the organization committee, we cordially invite you to the joint meeting of 4<sup>th</sup> International Symposium on Pesticides and Environmental Safety, the 5<sup>th</sup> Pan Pacific Conference on Pesticide Science (PPCPS) and the 8<sup>th</sup> International Workshop on Crop Protection Chemistry and Regulatory Harmonization, which will be held in Beijing, China, on September 15-20, 2012.

Due to the earthquake in Japan in 2011, the 5<sup>th</sup> Pan Pacific Conference on Pesticide Science (PPCPS), which was scheduled on July 8-12, 2012 in Tsukuba, Japan, will be held in Beijing, China together with the 4<sup>th</sup> International Symposium on Pesticides and Environmental Safety and the 8<sup>th</sup> International Workshop on Crop Protection Chemistry and Regulatory Harmonization. All the symposium, conference, and workshop will be jointly hosted by the Beijing Pesticide Society (BPS), the International Union of Pure and Applied Chemistry (IUPAC), the Pesticide Science Society of Japan (PSSJ), China Agricultural University (CAU) and the Institute for the Control of Agrochemicals, the Ministry of Agriculture, China (ICAMA). The symposium, conference, and workshop will chiefly focus on six topics, including pesticide regulation, pesticide residues, pesticide environmental fate and risk assessment, pesticide formulation and application, new pesticide discovery, pesticide mode of action and resistance mechanism. As the largest international gathering of its kind ever held in China, this event will expect over 600 participants and certainly provide a broad platform for academic exchanges. It will also be an excellent opportunity to promote the mutual understanding and strengthen the friendship between Chinese participants and their overseas counterparts. There is no doubt that with the strong support of the organizations and pesticide enterprises along with the hard work of the secretariat, the event will be a great success.

Looking forward to seeing you in Beijing!

Chairman

Organization Committee



Prof. Zhang Zhongning  
Institute of Zoology  
Chinese Academy of  
Sciences (CAS)



Dr. John B. Unsworth  
IUPAC Advisory Committee  
on Crop Protection Chemistry



Dr. Hiroshi Matsumoto  
University of Tsukuba

## Symposium Theme

The Symposium aims to bring together scientists in the fields of chemistry, pesticide, biology, toxicology, biotechnology, application techniques and environmental science of crop protection, vector control and environmental health issues from all over the world, in order to present achievements in science and technology and to exchange opinions about pesticide chemistry, bioscience, and environmental science. The sessions include plenary session, parallel sessions, selected poster session and exhibitions.

## Symposium Background

The production and use of pesticide have raised a series of environmental safety problems which are of great concern for sustainable agricultural development. With the rapid progress in the research, evaluation and regulation of plant chemical protection in China and other Asian countries, scientists, lawmakers and manufacturers have shown a serious concern over the safety, risk assessment and food residues of agricultural products. They hope to promote the sustainable development of safe food and trade of pesticides by way of international exchanges in scientific administration, production and application of chemical pesticides. In view of all this, Beijing Pesticide Society, International Union of Pure and Applied Chemistry, Pesticide Science Society of Japan, China Agricultural University and Institute for the Control of Agrochemicals of Ministry of Agriculture, China will jointly host the 4<sup>th</sup> International Symposium on Pesticides and Environmental Safety, the 5<sup>th</sup> Pan Pacific Conference on Pesticide Science and 8<sup>th</sup> International Workshop on Crop Protection Chemistry and Regulatory Harmonization in Beijing from September 15-20, 2012, which focus on the following six topics:

- Global views and harmonized approaches to pesticide regulation
- Pesticide residues in food and international trade standards
- Environmental fate, exposure modeling and risk assessment of pesticides
- Pesticide quality, formulation and application techniques
- New pesticide discovery and synthesis
- Pesticide mode of action, metabolism, and resistance mechanisms

## Committees and Organizations

### Organizing Committee

#### *Chairmen*

Zhongning Zhang, China

John B. Unsworth, UK

Hiroshi Matsumoto, Japan

#### *General Secretary*

Xiongkui He, China

### Honorary Committee

#### *Chairmen*

Shuren Jiang, China

Zhengming Li, China

#### *Members*

Fuheng Chen, China

Izuru Yamamoto, Japan

Kenneth D. Racke, USA

Toshio Fujita, Japan

Zepu Zhang, China

### Scientific Committee

#### *Chairmen*

Xinling Yang, China

Stephen O. Duke, USA

Hisashi Miyagawa, Japan

#### *Members*

Andreas Herbst, Germany

Andrew Landers, USA

Arata Katayama, Japan

Baogen Gu, China

Canping Pan, China

Changling Liu, China

Chuanling Qiao, China

Daoquan Wang, China

Feineng Zheng, China

Fengmao Liu, China

Gijs A. Kleter, Netherlands

Guangfu Yang, China

Hiroshi Matsumoto, Japan

Hiroto Tamura, Japan

Hisashi Miyagawa, Japan

Hongwu He, China

James N. Seiber, USA

John Clark, USA

Kazuhiko Matsuda, Japan

Kenneth D. Racke, USA

Laura McConnell, USA

Noriharu Ken Umetsu, Japan

Philip Lee, USA

Song Yang, China

Stephen O. Duke, USA

Tadao Asami, Japan

Takeo Okochi, Japan

**4<sup>th</sup> International Symposium on Pesticide and Environmental Safety**

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Wenjun Wu, China

Xinling Yang, China

Xiongkui He, China

Xuhong Qian, China

Yongquan Zheng, China

Zhen Xi, China

Zhengming Li, China

Zhongning Zhang, China

**Local Committee**

***Chairman:***

Baogen Gu, China

***Members:***

Baijing Qiu, China

Baoan Song, China

Feineng Zheng, China

Jining Zhang, China

Ruiming Lin, China

Xing Zhang, China

Xinyu Xue, China

Yan Lin, China

Yongquan Zheng, China

Zhenrun Shao, China

Zhiqiang Zhou, China



## Program at a Glance

### September 15<sup>th</sup>, 2012, Saturday

10:00-18:00	Registration	Lobby of BICC
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### September 16<sup>th</sup>, 2012, Sunday

08:30-22:00	Registration	Lobby of BICC
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19:00-20:30	Welcome Reception	Conference Room 203, 2/F of BICC
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### September 17<sup>th</sup>, 2012, Monday

08:30-09:10	Opening Ceremony	Convention Hall No. 1, 2/F of BICC
09:10-10:20	Plenary Session	Convention Hall No. 1, 2/F of BICC

10:20-11:00	Poster Session & Coffee Break	2/F of BICC
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11:00-12:30	Session I	Room 203-D, 2/F of BICC
11:00-12:45	Session II	Room 203-A, 2/F of BICC
11:00-12:30	Session III	Room 203-B, 2/F of BICC
11:00-12:40	Session IV	Room 201-C+D, 2/F of BICC
11:00-12:30	Session V	Room 201-A+B, 2/F of BICC
11:00-12:30	Session VI	Room 203-C, 2/F of BICC

12:30-14:00	Working Lunch	Banquet Hall, 2/F of Continental Grand Hotel
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14:00-17:45	Session I	Room 203-D, 2/F of BICC
14:00-17:05	Session II	Room 203-A, 2/F of BICC
14:00-17:45	Session III	Room 203-B, 2/F of BICC
14:00-17:35	Session IV	Room 201-C+D, 2/F of BICC
14:00-17:35	Session V	Room 201-A+B, 2/F of BICC
14:00-17:30	Session VI	Room 203-C, 2/F of BICC

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**September 18<sup>th</sup>, 2012, Tuesday**

08:30-10:15	Plenary Session	Convention Hall No. 1, 2/F of BICC
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10:15-11:00	Poster Session & Coffee Break	2/F of BICC
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11:00-12:30	Session I	Room 203-D, 2/F of BICC
11:00-12:30	Session II	Room 203-A, 2/F of BICC
11:00-12:25	Session III	Room 203-B, 2/F of BICC
11:00-12:40	Session IV	Room 201-C+D, 2/F of BICC
11:00-12:30	Session V	Room 201-A+B, 2/F of BICC
11:00-12:30	Session VI	Room 203-C, 2/F of BICC

13:00-14:00	Working Lunch	Banquet Hall, 2/F of Continental Grand Hotel
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14:00-17:45	Session I	Room 203-D, 2/F of BICC
14:00-17:30	Session II	Room 203-A, 2/F of BICC
14:00-17:30	Session III	Room 203-B, 2/F of BICC
14:00-16:15	Session IV	Room 201-C+D, 2/F of BICC
14:00-17:25	Session V	Room 201-A+B, 2/F of BICC
14:00-15:00	Session VI	Room 203-C, 2/F of BICC

19:00-20:30	Gala Evening	Convention Hall No. 1, 2/F of BICC
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**September 19<sup>th</sup>, 2012, Wednesday**

08:30-10:15	Plenary Session	Convention Hall No. 1, 2/F of BICC
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10:15-11:00	Poster Session & Coffee Break	2/F of BICC
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11:00-12:00	Session I	Room 203-D, 2/F of BICC
11:00-12:50	Session II	Room 203-A, 2/F of BICC
11:00-12:25	Session III	Room 203-B, 2/F of BICC
11:00-12:30	Session IV	Room 201-C+D, 2/F of BICC
11:00-12:30	Session V	Room 201-A+B, 2/F of BICC
11:00-12:30	Session VI	Room 203-C, 2/F of BICC

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13:00-14:00	Working Lunch	Banquet Hall, 2/F of Continental Grand Hotel
14:00-16:15	Session III	Room 203-B, 2/F of BICC
14:00-16:00	Session IV	Room 201-C+D, 2/F of BICC
14:00-16:00	Session V	Room 201-A+B, 2/F of BICC
14:00-15:30	Session VI	Room 203-C, 2/F of BICC
16:15-17:30	Poster Award & Closing Ceremony	Convention Hall No. 1, 2/F of BICC

**September 20<sup>th</sup>, 2012, Thursday**

**Tour Program**

## Social Program

### Welcome Reception

Venue: Conference Room 203, 2/F of BICC

Time: 19:00-20:00, September 16<sup>th</sup>, Sunday

Chair: Prof. Xiongkui He

### Opening Ceremony

Venue: Convention Hall No. 1, 2/F of BICC

Time: 08:30-09:10, September 17<sup>th</sup>, Monday

Chair: Prof. Xiongkui He

### Gala Evening

Venue: Convention Hall No. 1, 2/F of BICC

Time: 19:00-20:30, September 18<sup>th</sup>, Tuesday

Chair: Prof. Xiongkui He

The evening program will provide an opportunity to enjoy traditional Chinese music.

### Poster Award & Closing Ceremony

Venue: Convention Hall No. 1, 2/F of BICC

Time: 16:15-17:30, September 19<sup>th</sup>, Wednesday

Chairs: Prof. Baogen Gu, Dr. John B. Unsworth, Dr. Hiroshi Matsumoto

4<sup>th</sup> International Symposium on Pesticide and Environmental Safety

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Session Topics			
No.	Topic	Chairmen	Venue
<b>I</b>	<b>Global Views and Harmonized Approaches to Pesticide Regulation</b>		
	I-1: Pesticide Regulation and Registration	Dr. Kenneth D. Racke, USA	Conference Room 203-D
	I-2: Toxicology, Risk Assessment, and MRLs of Pesticide	Prof. Baogen Gu, China	
	I-3: Development, Intellectual Property, and GLP Management of Pesticide	Dr. Noriharu Ken Umetsu, Japan	
<b>II</b>	<b>Pesticide Residues in Food and International Trade Standards</b>		
	II-1: Advances in Pesticide Residue Methodology		Conference Room 203-A
	II-2: Regulation of Consumer Safety in Raw, Processed Commodities, and Transgenic Crops	Dr. Hiroto Tamura, Japan	
	II-3: The Progress of Safety Evaluation of Chiral Pesticide Residue	Prof. Yongquan Zheng, China	
	II-4: Trade Standard on Food Quality: Harmonization from Domestic to International Standard	Dr. Gijs A. Kleter, Netherlands	
	II-5: Data Generation Research Supporting Registration and MRL Setting		
<b>III</b>	<b>Environmental Fate, Exposure Modeling and Risk Assessment of Pesticides</b>		
	III-1: Pesticide Fate, Exposure Modeling in the Air		Conference Room 203-B
	III-2: Pesticide Fate, Exposure Modeling in Water (Surface Water and Groundwater), Soil and Sediment		
	III-3: Pesticide Fate, Exposure Modeling in The Environment (Algae, Platonic Organisms, wild lives, etc.)	Dr. James N. Seiber, USA Prof. Fengmao Liu, China Dr. Arata Katayama, Japan	
	III-4: Assessing Risks of Pesticides to Human Being		
	III-5: Residue Analysis in the Environment Matrices		
	III-6: Residue Problem, Remediation of Pesticides in the Environment		

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<b>IV</b>	<b>Pesticide Quality, Formulation and Application Techniques</b>		
	IV-1: Standards and Regulations on PPP Application Equipment		
	IV-2: Enhancing Productivity & Sustainability Through Improved PPP Application Equipment and Standards	Prof. Xiongkui He, China	
	IV-3: Development of New Equipment and Application Techniques	Prof. Andrew Landers, USA	Conference Room
	IV-4: Pesticide Quality & Safety	Dr. Takeo Okochi, Japan	201-C+D
	IV-5: Precision Chemicals Application Techniques	Dr. Andreas Herbst, Germany	
	IV-6: Application Techniques for Efficient Deposition on the Target		
	IV-7: New Formulation Techniques		
<b>V</b>	<b>New Pesticide Discovery and Synthesis</b>		
	V-1: Natural Product-based Pesticides	Prof. Zhengming Li, China	
	V-2: Chemistry-based Pesticide Discovery	Prof. Xinling Yang, China	Conference Room
	V-3: Target-based Molecular Design and Pesticide Discovery	Dr. Tadao Asami, Japan	201-A+B
	V-4: New Crop Protection Solutions -- Reduced Risk Pesticides, Bio-pesticides, IPM etc.		
	V-5: New Techniques and Methodology in Pesticide Discovery and Synthesis		
<b>VI</b>	<b>Pesticide Mode of Action, Metabolism, and Resistance Mechanisms</b>		
	VI-1: Modes of Action to Insecticides		
	VI-2: Mechanisms of Resistance to Insecticides	Dr. Stephen O. Duke, USA	Conference Room
	VI-3: Modes of Action to Herbicides	Prof. Chuanling Qiao, China	203-C
	VI-4: Mechanisms of Resistance to Herbicides	Dr. Kazuhiko Matsuda, Japan	
	VI-5: Modes of Action and Resistance to Fungicides		

Scientific Program

September 17<sup>th</sup>, 2012, Monday

08:30-09:10      Opening Ceremony

Chair:            *Prof. Xiongkui He, China Agricultural University, China*

Convention Hall

No. 1

09:10-10:20      Plenary Session

Co-Chairs:

*Prof. Xinling Yang, China Agricultural University, China*

*Dr. Stephen O. Duke, United States Department of Agriculture, USA*

09:10-09:45

**Research and Development of Novel Green Pesticides via Basic Approaches**

*Invited Keynote Speaker: Xuhong Qian*

*East China University of Science and Technology, China*

09:45-10:20

**The World Wide Web – A Global Information Resources for Crop Protection**

**Chemistry**

*Invited Keynote Speaker: John B. Unsworth*

*IUPAC Committee on Crop Protection Chemistry, UK*

10:20-11:00

**Poster Session & Coffee Break**

<b>Session I</b>	<b>Global Views and Harmonized Approaches to Pesticide Regulation</b>	<b>Conference Room 203-D</b>
<b>Chairmen:</b>	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i> <i>Prof. Baogen Gu, ICAMA, China</i> <i>Dr. Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
<b>I -1</b>	<b>Pesticide Regulation and Registration</b>	
<b>Co-chairs:</b>	<i>Prof. Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i> <i>Prof. Baogen Gu, ICAMA, China</i>	
<b>11:00-11:30</b>	<b>Principles of Regulation for Crop Protection Products: Industry Perspectives on Best Practices</b>	
	<i>Invited Speaker: Kenneth D. Racke, Dow AgroSciences, USA</i>	
<b>11:30-12:00</b>	<b>The Current Pesticide Quality Situation and Supervision New Ideas in China</b>	
	<i>Speaker: Shaoren Liu, ICAMA, China</i>	
<b>12:00-12:30</b>	<b>Pesticide Regulation Harmonization in Thailand and the ASEAN</b>	
	<i>Invited Speaker: Vinai Pitiyont, Central Laboratory, Thailand</i> <i>Prof. Baogen Gu, ICAMA, China</i>	
<b>Co-chairs:</b>	<i>Prof., Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
<b>14:00-14:30</b>	<b>Alternative Testing Methods and Their Acceptabilities to Regulatory Authorities</b>	
	<i>Speaker: Xiangdong Shao, Nutrichem Laboratory Co., Ltd., China</i>	
<b>14:30-15:00</b>	<b>Pesticide Registration Status and International Harmonization Effort in Korea</b>	
	<i>Speaker: Jae-Han Shim, Chonnam National University, Republic of Korea</i>	
<b>15:00-15:30</b>	<b>Reform of the Pesticide Registration System in Japan</b>	
	<i>Speaker: Kusakawa Masashi, Ministry of Agriculture, Japan</i>	
<b>15:30-16:00</b>	<b>Global Joint Reviews of New Active Ingredients</b>	
	<i>Invited Speaker: Lois Rossi, U.S. Environmental Protection Agency, USA</i>	
<b>16:00-16:15</b>	<b>Coffee Break</b>	



16:15-16:45	Endocrine Disruptors-Harmonization and Testing Strategies for Pesticides <i>Speaker: Mike Neale, LKC Switzerland Ltd, Switzerland</i>	
16:45-17:15	Risk Assessment and Mitigation in Development and Registration of Crop Protection Products <i>Speaker: Zhenxu Tang, Bayer, USA</i>	
17:15-17:45	Development and Regulation of Biopesticide in China <i>Speaker: Shankui Yuan, ICAMA, China</i>	
Session II	Pesticide Residues in Food and International Trade Standards  <i>Dr. Hiroto Tamura, Meijo University, Japan</i>	Conference Room 203-A
Chairmen:	<i>Prof. Yongquan Zheng, Chinese Academy of Agricultural Sciences, China</i> <i>Dr. Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i>	
II -1	Advances in Pesticide Residue Methodology	
Co-chairs:	<i>Prof. Hiroto Tamura, Meijo University, Japan</i> <i>Prof. Yongquan Zheng, Chinese Academy of Agricultural Sciences, China</i>	
11:00-11:30	Residue Analysis of Pesticide in Japanese Agricultural Products for Actual Intake Evaluation  <i>Invited Speaker: Machiko Saka, The Institute of Environmental Toxicology, Japan</i>	
11:30-11:55	Trace Analysis of Pesticides in High Matrix Samples Using GCxGC-qMS  <i>Invited Speaker: Megumi Hirooka, Shimadzu Co., Ltd., Japan</i>	
11:55-12:20	Analysis of Fungicide Residues in Strawberry by Dispersive Solid Phase Extraction and Dispersive Liquid-Liquid Microextraction  <i>Invited Speaker: Ercheng Zhao, Beijing Academy of Agriculture and Forestry Sciences, China</i>	

12:20-12:45	<p><b>Development of Immunoassays for Pesticide Residue Analysis in Agricultural Products</b></p> <p><i>Invited Speaker: Shiro Miyake, Advanced Scientific Technology &amp; Management Research Institute of KYOTO, Japan</i></p>
II -2	<p><b>Regulation of Consumer Safety in Raw, Processed Commodities</b></p> <p><i>Prof. Hiroto Tamura, Meijo University, Japan</i></p>
Co-chairs:	<p><i>Dr. Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i></p> <p><i>Dr. Isao Saito, Tokai COOP Fedelation, Japan</i></p>
14:00-14:25	<p><b>Multi Residue Analysis of Pesticides in Fruits, Vegetables and Processed Foods by State-of-the-Art LC/MSMS System</b></p> <p><i>Invited Speaker: Masahiko Takino, Agilent Co., Ltd., Japan</i></p>
14:25-14:50	<p><b>Development of a Multi-residue Method for Analyzing 65 Herbicides in Pork Based on Gel Permeation Chromatography and Gas Chromatography–mass Spectrometry</b></p> <p><i>Speaker: Yongning Wu, China National Center for Food Safety Risk Assessment, China</i></p>
14:50-15:10	<p><b>Latest Advance of Chemiluminescence Immunoassay in Food Safety</b></p> <p><i>Invited Speaker: Maojun Jin, Chinese Academy of Agricultural Sciences, China</i></p>
15:10-15:30	<p><b>HPLC-DAD Coupled to SPE Method for the Determination of Clodinafop Propargyl in Soil and Wheat</b></p> <p><i>Speaker: Jiye Hu, University of Science and Technology Beijing, China</i></p>
15:30-15:50	<p><b>Determination of Thirteen Sulfonylurea Herbicides in Water Samples by Ionic Liquid Dispersive Liquid-liquid Microextraction</b></p> <p><i>Speaker: Yanjie Li, China Agricultural University, China</i></p>
15:50-16:05	<p><b>Coffee Break</b></p>
16:05-16:25	<p><b>Simultaneous Determination of 89 Pesticides Residues in Oolong Tea by Gas Chromatography-tandem Mass Spectrometry</b></p> <p><i>Speaker: Chia-chang Wu, Tea Research and Extension Station, Chinese Taipei</i></p>

16:25-16:45	Simultaneous Determination of 19 Triazine Herbicides in Pork by High Performance Liquid Chromatography-ion Trap Mass Spectrometry <i>Speaker: Peng Li, Chinese National Center for Food Safety Risk Assessment, China</i>	
16:45-17:05	Development of Immunoassay Methods for Clothianidin in Agricultural Samples <i>Speaker: Minghua Wang, Nanjing Agricultural University, China</i>	
Session III	<b>Environmental Fate, Exposure Modeling and Risk Assessment of Pesticides</b>	<b>Conference Room 203-B</b>
	<i>Dr. James N. Seiber, University of California, USA</i>	
Chairmen:	<i>Prof. Fengmao Liu, China Agricultural University, China</i> <i>Dr. Arata Katayama, Nagoya University, Japan</i>	
III -1	<b>Pesticide Fate, Exposure Modeling in the Air</b>	
	<i>Prof. Naoki Motoyama, Tokyo University of Agriculture, Japan</i>	
Co-chairs:	<i>Prof. James N. Seiber, University of California, USA</i> <i>Prof. Junying Zhou, Nanjing Institute of Environmental Science, China</i>	
11:00-11:25	Possible Exposure and Health Effect of Aerial Pesticides Sprayed by Helicopters over Pine Forests <i>Invited Speaker: Naoki Motoyama, Tokyo Agricultural University, Japan</i>	
11:25-11:50	Long-range Transport of Pesticides Through the Air (China-Japan) and the Modeling <i>Invited Speaker: Yuso Kobara, National Institute for Agro-Environmental Sciences, Japan</i>	
11:50-12:10	New Approaches to Modeling Spray Drift <i>Invited Speaker: Andrew J. Hewitt, Lincoln University, New Zealand</i>	
12:10-12:30	A Pesticide Volatilisation Model for Assessing Vapour Drift Potential that Accounts for Crop and Soil Characteristics <i>Speaker: Trudy S. Geoghegan, University of Otago, New Zealand</i>	

<b>III -2</b>	<b>Pesticide Fate, Exposure Modeling in Water (Surface Water and Groundwater), Soil and Sediment</b>
<b>Co-chairs:</b>	<i>Prof. Qingxiao Li, University of Hawaii, USA</i> <i>Prof. Hirozumi Watanabe, Tokyo University of Agriculture and Technology, Japan</i> <i>Prof. Rimao Hua, Anhui Agricultural University, China</i>
<b>14:00-14:25</b>	<b>Development and Validation of a Watershed Scale Pesticide Fate and Transport Model by Coupling SWAT and PCPF-1 Models</b> <i>Invited Speaker: Hirozumi Watanabe, Tokyo University of Agriculture and Technology, Japan</i>
<b>14:25-14:50</b>	<b>Degradation of Flumioxazin in Illuminated Water-sediment Systems</b> <i>Invited Speaker: Atsushi Shibata, Sumitomo Chemical Co., Ltd., Japan</i>
<b>14:50-15:15</b>	<b>The Environmental Behavior and Fate of Cis-configuration Neonicotinoid Paichongding in Soils</b> <i>Invited Speaker: Xiaoyong Xu, East China University of Science and Technology, China</i>
<b>15:15-15:35</b>	<b>Environmental Risk Assessments for the Registration of Pesticides Used in Rice Paddy Fields: An IUPAC Project</b> <i>Invited Speaker: Johannes Linders, Agroformosa Technology Company, Ltd., The Netherlands</i>
<b>15:35-15:55</b>	<b>Pyrethroids in California Surface Water: Occurrence, Effects and Causes</b> <i>Invited Speaker: Jay Gan, University of California, USA</i>
<b>15:55-16:15</b>	<b>Coffee Break</b>
<b>16:15-16:35</b>	<b>Monitoring of Pesticides and Major Metabolites in River of Paddy Field Basin</b> <i>Invited Speaker: Takeshi Horio, NIAES, Japan</i>
<b>16:35-16:55</b>	<b>Modeling Daily Pesticide Stream Concentrations in Agricultural Watersheds Using a Sinusoidal Wave Function</b> <i>Invited Speaker: Wenlin Chen, Syngenta Crop Protection, USA</i>
<b>16:55-17:15</b>	<b>Comparison of Aquatic Exposure Assessment Models for Pesticide Use on Rice</b> <i>Invited Speaker: Amy M. Ritter, Waterborne Environmental, Inc., USA</i>

17:15-17:35	<b>The Development of a Modeling Platform for Aquatic Risk Assessments of Pesticides in the Tiaoxi River</b> <i>Invited Speaker: Junying Zhou, Nanjing Institute of Environmental Science, China</i>	
<b>Session IV</b>	<b>Pesticide Quality, Formulation and Application Techniques</b>	<b>Conference Room 201-C+D</b>
<b>Chairmen:</b>	<i>Prof. Xiongkui He, China Agricultural University, China</i>	
	<i>Prof. Andrew Landers, Cornell University, USA</i>	
	<i>Dr. Takeo Okochi, Agrochemicals Research Center, Mitsui Chemicals Agro Inc., Japan</i>	
	<i>Dr. Andreas Herbst, Julius-Kuehn-Institute, Germany</i>	
<b>IV -1</b>	<b>Standards and Regulations on PPP Application Equipment</b>	
<b>Co-chairs:</b>	<i>Dr. Xuejun Yang, Chinese Academy of Agricultural Mechanization Sciences, China</i>	
	<i>Dr. Takeo Okochi, Agrochemicals Research Center, Mitsui Chemicals Agro Inc., Japan</i>	
11:00-11:20	<b>ISO Standards on Equipment for Crop Protection</b> <i>Invited Speaker: Jean Christophe Rousseau, Berthoud, Belleville, France</i>	
11:20-11:40	<b>China Standards</b> <i>Speaker: Xuansheng Zhang, Chinese Academy of Agricultural Mechanization Sciences, China</i>	
11:40-12:00	<b>China Compulsory Certification and Quality Supervision for Plant Protection Equipment</b> <i>Speaker: Xiaobing Chen, Nanjing Institute for Agricultural Mechanization, China</i>	
12:00-12:20	<b>The Growing Importance of Regulations and the Role of Standards –the Case of Europe</b> <i>Invited Speaker: Jean Christophe Rousseau, Berthoud, Belleville, France</i>	
12:20-12:40	<b>Case Study on Development of a Standard Using the Example of the New EN ISO 19932</b> <i>Invited Speaker: Andreas Herbst, Julius-Kühn-Institut, Germany</i>	

<b>IV -2</b>	<b>Enhancing Productivity &amp; Sustainability Through Improved PPP Application Equipment and Standards</b>
<b>Co-chairs:</b>	<i>Prof. Baijing Qiu, Jiangsu University, China</i> <i>Prof. Siegfried Kleisinger, University of Hohenheim, Germany</i>
<b>14:00-14:20</b>	<b>Developments &amp; Trends of Chemicals Application in China</b> <i>Invited Speaker: Xiongkui He, China Agricultural University, China</i>
<b>14:20-14:40</b>	<b>Worldwide Trends of Chemicals Application Technology—Nozzle Technology</b> <i>Speaker: Heinkel Robert, Lechler GmbH, Germany</i>
<b>14:40-15:00</b>	<b>Worldwide Trends of Chemical Application Technology - Equipment and Machinery Technology</b> <i>Speaker: Travis Funseth, John Deere, USA</i>
<b>15:00-15:20</b>	<b>Increasing Productivity in Chinese Market</b> <i>Speaker: Xuejun Yang, Chinese Academy of Agricultural Mechanization Sciences, China</i>
<b>15:20-15:40</b>	<b>Aerial Application in US</b> <i>Invited Speaker: Jane Bonds, Bonds Consulting Group LLC, USA</i>
<b>15:40-16:00</b>	<b>Recent Advances and Future Prospects on Pesticide Application Equipment in Japan</b> <i>Speaker: Sumihiko Miyahara, National Agriculture and Food Research Organization, Japan</i>
<b>16:00-16:15</b>	<b>Coffee Break</b>
<b>IV -3</b>	<b>Development of New Equipment and Application Techniques</b>
<b>Co-chairs:</b>	<i>Dr. Xiansheng Zhang, Chinese Academy of Agricultural Mechanization Sciences, China</i> <i>Dr. Heinkel Robert, Lechler GmbH, Germany</i>
<b>16:15-16:35</b>	<b>Inspection of Sprayers in Use: What Systems Are in Use in Europe? Pro's &amp; Con's</b> <i>Speaker: J. Langenakens, Advanced Agricultural Measurement Systems, Belgium</i>

16:35-16:55	<b>Spray Drift Reduction Technologies</b> <i>Invited Speaker: Andrew Hewitt, Lincoln University, New Zealand</i>
16:55-17:15	<b>Experiment Study on Spraying Drift and Deposition of UVA Application in Paddy Field</b> <i>Speaker: Xinyu Xue, Nanjing Institute for Agricultural Mechanization, China</i>
17:15-17:35	<b>The Intelligent Decision and Controlling System for Greenhouse Pesticide Application</b> <i>Speaker: Lijun Qi, China Agriculture University, China</i>

**Session V New Pesticide Discovery and Synthesis**

**Conference Room  
201-A+B**

*Prof. Zhengming Li, Nankai University, China*

**Chairmen:** *Prof. Xinling Yang, China Agricultural University, China*

*Dr. Tadao Asami, The University of Tokyo, Japan*

**V - 1 Natural Product-based Pesticides**

**Co-chairs:**

*Prof. Baoan Song, Guizhou University, China*

*Prof. Mingan Wang, China Agricultural University, China*

**11:00-11:30 Antiplant Viral Agents from Natural Products in China**

*Invited Speaker: Baoan Song, Guizhou University, China*

**11:30-11:50 An Efficient Optimizing Strategy for the Daphnenone Analogues and Their Fungicidal Activity**

*Speaker: Yun Ling, China Agricultural University, China*

**11:50-12:10 Synthesis and Fungicidal Activity of 6,7-Dihydrooxepin-2(5H)-one Analogues**

*Speaker: Mingan Wang, China Agricultural University, China*

**12:10-12:30 Advance of Podophyllotoxin Derivatives as Insecticidal Agents**

*Speaker: Hui Xu, Northwest A&F University, China*

<b>V - 2</b>	<b>Chemistry-based Pesticide Discovery</b>
<b>Co-chairs:</b>	<p><i>Prof. Zhong Li, East China University of Science and Technology, China</i></p> <p><i>Dr. Peter Maienfisch, Syngenta Crop Protection Minchwilen, Switzerland</i></p> <p><i>Dr. Arun A. Narine, BASF SE, Germany</i></p>
<b>14:00-14:30</b>	<p><b>4-Alkylaminoquinazolines – A New Insecticide Class Active Against Chewing Insects</b></p> <p><i>Invited Speaker: Arun A. Narine, BASF SE, Germany</i></p>
<b>14:30-15:00</b>	<p><b>Design, Synthesis and Fungicidal Activity of Triamide Compounds</b></p> <p><i>Invited Speaker: Changling Liu, Shenyang Research Institute of Chemical Industry Co. Ltd., China</i></p>
<b>15:00-15:30</b>	<p><b>The Discovery of Insecticidal 1-(3,5-dichloropyridin-2-yl)-pyrazole Carboxamides</b></p> <p><i>Speaker: Bin Li, Shenyang Research Institute of Chemical Industry Co. Ltd., China</i></p>
<b>15:30-15:50</b>	<p><b>Design, Synthesis and Fungicidal Activity of Pyrazolecarboxamide Compounds</b></p> <p><i>Speaker: Lizeng Wang, Shenyang Research Institute of Chemical Industry Co. Ltd., China</i></p>
<b>15:50-16:10</b>	<p><b>Design, Synthesis and Insecticidal Activity of Novel Anthranilic Diamides with Aryl Sulfides Scaffold</b></p> <p><i>Speaker: Yinbo Chen, East China University of Science and Technology, China</i></p>
<b>16:10-16:25</b>	<b>Coffee Break</b>
<b>16:25-16:55</b>	<p><b>Recent Developments in the Chemistry of Neonicotinoids and Spiroindolines</b></p> <p><i>Invited Speaker: Peter Maienfisch, Syngenta Crop Protection AG</i></p>
<b>16:55-17:15</b>	<p><b>Synthesis &amp; Bioactivity Study of 2-Acylamino Substituted N'-benzyl-benzohydrazide Derivatives</b></p> <p><i>Speaker: Shangzhong Liu, China Agricultural University, China</i></p>
<b>17:15-17:35</b>	<p><b>Synthesis and Insecticidal Activities of Novel Pyrazole Amides Containing Hydrazone Substructures</b></p> <p><i>Speaker: Jian Wu, Guizhou University, China</i></p>



<b>Session VI</b>	<b>Pesticide Mode of Action, Metabolism, and Resistance Mechanisms</b>	<b>Conference Room 203-C</b>
<b>Chairmen:</b>	<i>Dr. Stephen O. Duke, United States Department of Agriculture, USA</i> <i>Prof. Chuanling Qiao, Chinese Academy of Sciences, China</i> <i>Dr. Kazuhiko Matsuda, Kinki University, Japan</i>	
<b>VI - 1</b>	<b>Modes of Action to Insecticides</b>	
<b>Co-chairs:</b>	<i>Prof. Chuanling Qiao, Chinese Academy of Sciences, China</i> <i>Prof. Yoshihisa Ozoe, Shimane University, Japan</i>	
<b>11:00-11:30</b>	<b>A Novel Pyrethroid Receptor Site on a Mosquito Sodium Channel</b> <i>Invited Speaker: Ke Dong, Michigan State University, USA</i>	
<b>11:30-12:00</b>	<b><math>\gamma</math>-Aminobutyric Acid Receptors: Multiple Potential Sites for Insecticidal Actions</b> <i>Invited Speaker: Yoshihisa Ozoe, Shimane University, Japan</i>	
<b>12:00-12:30</b>	<b>Structural Insights into the Mode of Actions and Resistance to Neonicotinoids</b> <i>Invited Speaker: Kazuhiko Matsuda, Kinki University, Japan</i>	
<b>VI -1</b>	<b>Modes of Action and Resistance to Insecticides</b>	
<b>Co-chairs:</b>	<i>Prof. Yoshihisa Ozoe, Shimane University, Japan</i> <i>Prof. Chuanling Qiao, Chinese Academy of Sciences, China</i>	
<b>14:00-14:30</b>	<b>Mode of Action and Biochemical Analysis of the New Sulfoximine Sap-Feeding Insecticide, Sulfoxaflor</b> <i>Invited Speaker: Thomas C. Sparks, Dow AgroSciences, Indianapolis., IN USA</i>	
<b>14:30-15:00</b>	<b>Molecular Mechanisms of Insecticide Resistance and Monitoring Techniques</b> <i>Invited Speaker: John M. Clark, University of Massachusetts, USA</i>	

<b>VI -2</b>	<b>Mechanisms of Resistance to Insecticides</b>
<b>Co-chairs:</b>	<i>Prof. Kazuhiko Matsuda, Kinki University, Japan</i> <i>Prof. Ke Dong, Michigan State University, USA</i>
<b>15:00-15:30</b>	<b>Overview of 40 Years of Insecticide Resistance Genes Evolution in the Mosquito <i>Culex Pipiens</i></b> <i>Invited Speaker: Raymond Michel, Institute of Evolutionary Sciences, France</i>
<b>15:30-16:00</b>	<b>Carboxylesterase-mediated Insecticide Resistance in <i>Culex pipiens</i> Complex</b> <i>Invited Speaker: Feng Cui, Chinese Academy of Sciences, China</i>
<b>16:00-16:15</b>	<b>Coffee Break</b>
<b>16:15-16:40</b>	<b>Extensive Gene Duplication of Acetylcholinesterase is Necessary to Compensate the Fitness Cost due to Resistance-conferring Mutations in the Two-spotted Spider Mite</b> <i>Invited Speaker: Si Hyeock Lee, Seoul National University, Republic of Korea</i>
<b>16:40-17:05</b>	<b>Possible Activation of the Ca<sup>2+</sup> Channels by Celangulin I in the Central Neurons of <i>Spodoptera Exigua</i> (Hübner)</b> <i>Speaker: Yuxin Li, Nankai University, China</i>
<b>17:05-17:30</b>	<b>An Insecticide-induced Novel Glutathione Transferase in Lepidoptera</b> <i>Speaker: Kohji Yamamoto, Kyushu University Graduate School, Japan</i>

Scientific Program

September 18<sup>th</sup>, 2012, Tuesday

Convention Hall

08:30-10:15 Plenary Session

No. 1

**Co-Chairs:**

*Dr. Kenneth D. Racke, Dow AgroSciences, USA*

*Prof. Zhongning Zhang, Institute of Zoology, Chinese Academy of Sciences, China*

*Prof. John B. Unsworth, IUPAC Committee on Crop Protection Chemistry, UK*

**08:30-09:05**

**Globally Harmonized Approaches to Pesticides Registration**

*Invited Keynote Speaker: Lois Rossi*

*U.S. Environmental Protection Agency, USA*

**09:05-09:40**

**The Perspectives of Pesticide Registration and Management in China**

*Invited Keynote Speaker: Baogen Gu*

*Institute for the Control of Agrochemicals, MOA. China*

**09:40-10:15**

**A Prospective Approach to Understanding the Transport and Fate of Pesticides and Contaminants in the Environment**

*Invited Keynote Speaker: James N. Seiber*

*University of California, Davis, USA*

**10:15-11:00**

**Poster Session & Coffee Break**

<b>Session I</b>	<b>Global Views and Harmonized Approaches to Pesticide Regulation</b>	<b>Conference Room 203-D</b>
	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i>	
<b>Chairmen:</b>	<i>Prof. Baogen Gu, ICAMA, China</i>	
	<i>Dr. Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
<b>I -2</b>	<b>Toxicology, Risk Assessment and MRLs of Pesticide</b>	
<b>Co-chairs:</b>	<i>Dr. Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
	<i>Prof. Chuanjiang Tao, ICAMA, China</i>	
<b>11:00-11:30</b>	<b>Development of Pesticide Occupational Risk Assessment Approaches in China</b>	
	<i>Speaker: Chuanjiang Tao, ICAMA, China</i>	
<b>11:30-12:00</b>	<b>Harmonized Approach to Future Toxicology Testing for Pesticide Regulation</b>	
	<i>Invited Speaker: Kosei Inui, Ishihara Sangyo Ltd., Japan</i>	
<b>12:00-12:30</b>	<b>New Approach to Harmonized Guidelines For Endocrine Disrupter Testing and Assessment</b>	
	<i>Speaker: Hiroaki Aoyama, The Institute of Environ. Toxic., Japan</i>	
<b>Co-chairs:</b>	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i>	
	<i>Prof. Chuanjiang Tao, ICAMA, China</i>	
<b>14:00-14:30</b>	<b>Mitigating Conflicts of Interest in Chemical Safety Testing: A Proposal for Enhancing Public Trust While Sustaining Productivity and Profitability</b>	
	<i>Speaker: David C. Volz, University of South Carolina, USA</i>	
<b>14:30-15:00</b>	<b>Japanese Positive MRL System: Current Situation and Impact on Domestic and International</b>	
	<i>Invited Speaker: Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
<b>15:00-15:30</b>	<b>Best Use of Available Data for Global Regulatory Decisions and Establishment of Harmonized MRLs</b>	
	<i>Speaker: Cheryl B. Cleveland, Dow AgroSciences, USA</i>	
<b>15:30-15:45</b>	<b>Coffee Break</b>	

<b>I-3</b>	<b>Development, Intellectual Property and GLP Management of Pesticide</b>		
<b>Co-chairs:</b>	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i> <i>Prof. Chuanjiang Tao, ICAMA, China</i>		
<b>15:45-16:15</b>	<b>The Advance of Pesticide Intellectual Property in China</b> <i>Invited Speaker: Xia Zhao, State Intellectual Property Office (SIPO) in China</i>		
<b>16:15-16:45</b>	<b>Assessment and Regulation of Environmental Risk of Pesticide in China</b> <i>Speaker: Hui Jiang, ICAMA, China</i>		
<b>16:45-17:15</b>	<b>The Evolution of Regulatory Requirements for Pesticides</b> <i>Invited Speaker: John B. Unsworth, IUPAC Committee Chair, UK</i>		
<b>Session II</b>	<b>Pesticide Residues in Food and International Trade Standards</b>	<b>Conference Room</b>	<b>203-A</b>
<b>Chairmen:</b>	<i>Dr. Hiroto Tamura, Meijo University, Japan</i> <i>Prof. Yongquan Zheng, Chinese Academy of Agricultural Sciences, China</i> <i>Dr. Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i>		
<b>II -3</b>	<b>The Progress of Safety Evaluation of Chiral Pesticide Residue</b>		
<b>Co-chairs:</b>	<i>Prof. Weiping Liu, Zhejiang University, China</i> <i>Prof. Wayne Garrison, U.S.EPA, USA</i> <i>Dr. Takuo Fujisawa, Sumitomo Chemical Co., Ltd., Japan</i>		
<b>11:00-11:30</b>	<b>Enantioselectivity in Environmental Safety of Chiral Halogen-containing Pesticides</b> <i>Invited Speaker: Weiping Liu, Zhejiang University, China</i>		
<b>11:30-12:00</b>	<b>How Stereochemistry Considerations Can Improve Pesticide Safety</b> <i>Invited Speaker: Wayne Garrison, U.S.EPA, USA</i>		

<p><b>12:00-12:30</b></p>	<p><b>Factors Affecting Phase I Stereoselective Biotransformation of Chiral Persistent Organic Pollutants (POPs) by Cytochrome P-450 Isozymes</b></p> <p><i>Invited Speaker: Zhe Lu, University of Manitoba, Canada</i></p>
<p><b>14:00-14:25</b></p>	<p><b>Dietary Assessment of Esfenvalerate with Chiral Aspects in Crop Residues</b></p> <p><i>Invited Speaker: Naoko Nagasawa, Sumitomo Chemical Co., Ltd., Japan</i></p>
<p><b>14:25-14:50</b></p>	<p><b>Stereoselective Degradation of Chiral Pesticide Under Open Conditions</b></p> <p><i>Invited Speaker: Li Li, Chinese Academy of Sciences, China</i></p>
<p><b>14:50-15:15</b></p>	<p><b>Residue Analysis and Stereoselective Degradation of Triazole Chiral Fungicides in Plant and Soil</b></p> <p><i>Speaker: Fengshou Dong, Chinese Academy of Agricultural Sciences, China</i></p>
<p><b>15:15-15:30</b></p>	<p><b>Coffee Break</b></p>
<p><b>II -4</b></p>	<p><b>Trade Standard on Food Quality Including Transgenic Crops: Harmonization from Domestic to International Standard</b></p>
<p><b>Co-chairs:</b></p>	<p><i>Dr. Chunzheng Zhang, Jiangsu Academy of Agricultural Sciences, China</i></p> <p><i>Dr. Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i></p>
<p><b>15:30-16:00</b></p>	<p><b>Transgenic Crop Regulation and Safety</b></p> <p><i>Invited Speaker: Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i></p>
<p><b>16:00-16:30</b></p>	<p><b>Analysis of Pesticide Residues in Colombian Tropical Fruits</b></p> <p><i>Invited Speaker: Jairo Arturo Guerrero Dallos, the National University of Colombia, Bogota D.C., Colombia</i></p>
<p><b>16:30-17:00</b></p>	<p><b>New Approaches for High Through-put Analysis of GMOs</b></p> <p><i>Invited Speaker: Dabing Zhang, Shanghai Jiaotong University, China</i></p>
<p><b>17:10-17:30</b></p>	<p><b>Pesticide Use and its Impact in a Tropical Country</b></p> <p><i>Invited Speaker: Clemens Ruepert, National University of Costa Rica, Costa Rica</i></p>

Session III	Environmental Fate, Exposure Modeling and Risk Assessment of Pesticides	Conference Room 203-B
Chairmen:	<i>Dr. James N. Seiber, University of California, USA</i>	
	<i>Prof. Fengmao Liu, China Agricultural University, China</i>	
	<i>Dr. Arata Katayama, Nagoya University, Japan</i>	
III -5	Residue Analysis in the Environment Matrices	
Co-chairs:	<i>Prof. Arata Katayama, Nagoya University, Japan</i>	
	<i>Prof. Canping Pan, China Agricultural University, China</i>	
	<i>Dr. Peng Wang, China Agricultural University, China</i>	
11:00-11:25	Stereoselective Environmental Behaviors of Benalaxyl Enantiomers <i>Invited Speaker: Peng Wang, China Agricultural University, China</i>	
11:25-11:45	The Study of the Influential Factors About the Extraction Recoveries of Three Tetracyclines in Soil <i>Speaker: Haijiao Wang, China Agricultural University, China</i>	
	Environmental Behaviors of Biocides in Simulated Microcosm <i>Speaker: Li Zhou, China Agricultural University, China</i>	
12:05-12:25	Use of Flow-Through Samplers to Measure Near-Field Vapour Drift of Fungicides <i>Speaker: Trudyanne S. Geoghegan, University of Otago, New Zealand</i>	

<b>III -4</b>	<b>Assessing Risks of Pesticides to Human Being</b>
	<i>Prof. Hideo Ohkawa, Kobe University, Japan</i>
<b>Co-chairs:</b>	<i>Prof. James N. Seiber, University of California, USA</i>
	<i>Prof. Ying Sun, China Agricultural University, China</i>
<b>14:00-14:30</b>	<b>Fatal Incidence of Humidifier Disinfectants in Korea in 2011: Implications for Risk Management of Biocides of Inhalatory Concern</b>
	<i>Invited Speaker: Yong-Hwa Kim, Korea Institute of Toxicology, Republic of Korea</i>
<b>14:30-15:00</b>	<b>Development of an Integrated Computational Application and Workflow to Assess the Toxicity Potentials of Chemicals</b>
	<i>Invited Speaker: Philip Lee, East China University of Science and Technology, China</i>
<b>15:00-15:30</b>	<b>Rate Pulmonary Proteome and Protein Networks in Response to the Herbicide Paraquat</b>
	<i>Invited Speaker: Qingxiao Li, University of Hawaii, USA</i>
<b>15:30-16:00</b>	<b>Studies on Metabolism and Disposition of Pesticides in Mammals by the Combined <i>in vivo/vitro/silico</i> Assessment Method</b>
	<i>Invited Speaker: Hirohisa Nagahori, Sumitomo Chemical Co., Ltd., Japan</i>
<b>16:00-16:15</b>	<b>Coffee Break</b>
<b>16:15-16:40</b>	<b>Biochar as a Climate Change Mitigation Technology: What Are the Implications for Pesticide Management in Soil?</b>
	<i>Speaker: Rai Kookana, University of Adelaide, Australia</i>
<b>16:40-17:05</b>	<b>Bioavailability of Chemicals for Microbial Actions in Soil</b>
	<i>Invited Speaker: Arata Katayama, Nagoya University, Japan</i>
<b>17:05-17:30</b>	<b>Publishing in the Journal of Agricultural and Food Chemistry</b>
	<i>Invited Speaker: James N. Seiber, University of California, USA</i>



<b>Session IV</b>	<b>Pesticide Quality, Formulation and Application Techniques</b>	<b>Conference Room 201-C+D</b>
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**Chairmen:**

*Prof. Xiongkui He, China Agricultural University, China*

*Prof. Andrew Landers, Cornell University, USA*

*Dr. Takeo Okochi, Agrochemicals Research Center, Mitsui Chemicals Agro Inc., Japan*

*Dr. Andreas Herbst, Julius-Kuehn-Institute, Germany*

<b>IV -4</b>	<b>Pesticide Quality &amp; Safety</b>
<b>Co-chairs:</b>	<p><i>Prof. Lijun Qi, China Agricultural University, China</i></p> <p><i>Dr. Andreas Herbst, Julius-Kuehn-Institut, Germany</i></p>
<b>11:00-11:20</b>	<p><b>Recent Advances and Future Prospects on the Development of Laborsaving Formulations Applied Into a Rice Paddy Field in Japan</b></p> <p><i>Speaker: Takeo Ohkouchi, Mitsui Chemicals Agro. Inc. Japan</i></p>
<b>11:20-11:40</b>	<p><b>Development and Application of Spray Adjuvant for Pesticides in China</b></p> <p><i>Invited Speaker: Zongjian Zhang, Central Research Institute of China Chemical Science and Technology, China</i></p>
<b>11:40-12:00</b>	<p><b>Application of Unmanned Aerial Vehicle (UAV) to Control Wheat Midges and Aphids</b></p> <p><i>Speaker: Huizhu Yuan, Chinese Academy of Agricultural Sciences, China</i></p>
<b>12:00-12:20</b>	<p><b>The Properties of Fipronil Chlorpyrifos CS Against Peanut Grub (Holotrichia Parallella)</b></p> <p><i>Speaker: Daibin Yang, Chinese Academy of Agricultural Sciences, China</i></p>
<b>12:20-12:40</b>	<p><b>Controlled Release of Tebuconazole from Mesoporous Zeolite MCM-41 Formulations</b></p> <p><i>Speaker: Qingrong Peng, China Agricultural University, China</i></p>

<b>IV -5</b>	<b>Precision Chemicals Application Techniques</b>
<b>Co-chairs:</b>	<i>Dr. Xiu Wang, National Engineering Research Center for Information Technology in Agriculture, China</i> <i>Dr. Andrew J. Hewitt, Lincoln University, New Zealand</i>
<b>14:00-14:20</b>	<b>Improving Spray Deposition in Fruit Crops – Airflow Adjustment is the Answer</b> <i>Invited Speaker: Andrew Landers, Cornell University, USA</i>
<b>14:20-14:40</b>	<b>A Test Method for GPS Based Boom Section Switching Systems</b> <i>Invited Speaker: Andreas Herbst, Julius-Kühn-Institute, Germany</i>
<b>14:40-15:00</b>	<b>Modeling Precision Chemical Application Techniques – Interaction of Spray Droplets with Plants</b> <i>Invited Speaker: Gary J. Dorr, Uni. Queensland, Australia</i>
<b>15:00-15:20</b>	<b>Reduced Volume Spray Application in Top Fruit – Control of Spray Losses</b> <i>Invited Speaker: Peter Triloff, Uni. Hohenheim, Germany</i>
<b>15:20-15:40</b>	<b>Laser Guided Variable-Rate Sprayer - Development and Field Evaluations</b> <i>Speaker: Yu Chen, Ohio State University, USA</i>
<b>15:40-16:00</b>	<b>The Use of Spectral Properties for Target Detecting and Identifying in Precision Chemical Application</b> <i>Speaker: Wei Deng, National Engineering Research Center for Information Technology in Agriculture, China</i>
<b>16:00-16:15</b>	<b>Coffee Break</b>

Session V      New Pesticide Discovery and Synthesis		Conference Room 201-A+B
<i>Prof. Zhengming Li, Nankai University, China</i>		
<b>Chairmen:</b>	<i>Prof. Xinling Yang, China Agricultural University, China</i>	
	<i>Dr. Tadao Asami, The University of Tokyo, Japan</i>	
<b>V - 3</b>	<b>Target-based Molecular Design and Pesticide Discovery</b>	
<b>Co-chairs:</b>	<i>Prof. Guangfu Yang, Central China Normal University, China</i>	
	<i>Prof. Tadao Asami, The University of Tokyo, Japan</i>	
<b>11:00-11:30</b>	<b>Design, Synthesis and Biological Activity of Ketol-acid Reductoisomerase Inhibitors</b>	
	<i>Speaker: Baolei Wang, Nankai University, China</i>	
<b>11:30-12:00</b>	<b>Chitin-catabolism Targeted Pesticides: Biology and Chemistry</b>	
	<i>Invited Speaker: Qing Yang, Dalian University of Technology, China</i>	
<b>12:00-12:30</b>	<b>Design, Synthesis and Fungicidal Activity of Glycosylthiadiazole Derivatives as Novel GlmS Inhibitors</b>	
	<i>Speaker: Jianjun Zhang, China Agricultural University, China</i>	
	<i>Prof. Zhengming Li, Nankai University, China</i>	
<b>Co-chairs:</b>	<i>Prof. Hisashi Mivagawa, Kyoto University, Japan</i>	
	<i>Prof. Xinling Yang, China Agricultural University, China</i>	
<b>14:00-14:30</b>	<b>Structure-based Discovery of Picomolar Qo Site Inhibitors of Cytochrome Bc1 Complex</b>	
	<i>Invited Speaker: Guangfu Yang, Central China Normal University, China</i>	
<b>14:30-15:00</b>	<b>Chemical Regulation of Strigolactone Functions Opens the Door to New Agricultural Technology</b>	
	<i>Invited Speaker: Tadao Asami, The University of Tokyo, Japan</i>	

15:00-15:30	<b>Discovery and Application of O,O-Dimethyl -(2,4-dichlorophenoxyacetoxy) Alkylphosphonate as New Postemergence Herbicide Against Broadleaf Weeds</b> <i>Invited Speaker: Hongwu He, Central China Normal University, China</i>
15:30-16:00	<b>Molecular design, Synthesis and MoA of Cis-neonicotinoids</b> <i>Invited Speaker: Zhong Li, East China University of Science and Technology, China</i>
16:00-16:15	<b>Coffee Break</b>
16:15-16:45	<b>New Strategy to Design Aphid Repellents Based on Aphid Chemoreception Systems</b> <i>Invited Speaker: Paolo Pelosi, Pisa University, Italy</i>
16:45-17:05	<b>Novel Molecular Recognition Mechanism Between Different Bioactive GA Molecules and Arabidopsis Receptor GID1A</b> <i>Speaker: Hongxia Duan, China Agricultural University, China</i>
17:05-17:25	<b>Discovery of Novel Ecdysteroid Antagonist Leads by Structure-Based Virtual Screening</b> <i>Speaker: Li Zhang, China Agricultural University, China</i>

<b>Session VI</b>	<b>Pesticide Mode of Action, Metabolism, and Resistance Mechanisms</b>	<b>Conference Room 203-C</b>
<b>Chairmen:</b>	<i>Dr. Stephen O. Duke, United States Department of Agriculture, USA</i> <i>Prof. Chuanling Qiao, Chinese Academy of Sciences, China</i> <i>Dr. Kazuhiko Matsuda, Kinki University, Japan</i>	
<b>VI -3</b>	<b>Modes of Action to Herbicides</b>	
<b>Co-chairs:</b>	<i>Prof. Stephen O. Duke, United States Department of Agriculture, USA</i> <i>Prof. Hiroshi Matsumoto, University of Tsukuba, Japan</i>	
<b>11:00-11:30</b>	<b>Action Mechanism of Isoxazoline-type Herbicides</b>	
	<i>Invited Speaker: Yoshitaka Tanetani, Kumiai Chemical Industry Co., Ltd., Japan</i>	
<b>11:30-12:00</b>	<b>Herbicide Mode of Action Discovery – Physionomics, Metabolomics, and Beyond</b>	
	<i>Invited Speaker: Johannes Hutzler, BASF SE, Germany</i>	
<b>12:00-12:30</b>	<b>A Novel Phytotoxic Hexapeptide Hapalocyclamide Isolated from Cyanobacterium and its Mode of Action</b>	
	<i>Invited Speaker: Hiroshi Matsumoto, University of Tsukuba, Japan</i>	
<b>VI -4</b>	<b>Mechanisms of Resistance to Herbicides</b>	
<b>Co-chairs:</b>	<i>Prof. Stephen O. Duke, United States Department of Agriculture, USA</i> <i>Prof. Hiroshi Matsumoto, University of Tsukuba, Japan</i>	
<b>14:00-14:30</b>	<b>Mechanisms of Resistance to Herbicides</b>	
	<i>Invited Speaker: Christopher Preston, University of Adelaide, Australia</i>	
<b>14:30-15:00</b>	<b>Development of Dicamba Tolerant Crops: A New Tool for Managing Glyphosate Resistant Weeds</b>	
	<i>Invited Speaker: Paul Feng, Monsanto Co, St. Louis, MO, USA</i>	
<b>16:00-16:15</b>	<b>Coffee Break</b>	

Scientific Program

September 19<sup>th</sup>, 2012, Wednesday

Convention Hall

08:30-10:15 Plenary Session

No. 1

**Co-Chairs:**

*Prof. Xiongkui He, China Agricultural University, China*

*Prof. Hisashi Miyagawa, Kyoto University, Japan*

*Prof. Hiroshi Matsumoto, University of Tsukuba, Japan*

**08:30-09:05**

**Challenges and Opportunities of Pesticide Application in Agriculture & Horticulture**

*Invited Keynote Speaker: Andrew Landers*

*Cornell University, USA*

**09:05-09:40**

**Half a Century of Agrochemical QSAR**

*Invited Keynote Speaker: Toshio Fujita*

*Kyoto University, Japan*

**09:40-10:15**

**Why Are There No New Commercial Herbicide Modes of Action?**

*Invited Keynote Speaker: Stephen O. Duke*

*United States Department of Agriculture, USA*

**10:15-11:00**

**Poster Session & Coffee Break**

<b>Session I</b>	<b>Global Views and Harmonized Approaches to Pesticide Regulation</b>	<b>Conference Room 203-D</b>
<b>Chairmen:</b>	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i> <i>Prof. Baogen Gu, ICAMA, China</i> <i>Dr. Noriharu Ken Umetsu, Tokyo University of Agriculture, Japan</i>	
<b>I -3</b>	<b>Development, Intellectual Property and GLP Management of Pesticide</b>	
<b>Co-chairs:</b>	<i>Dr. Kenneth D. Racke, Dow AgroSciences, USA</i> <i>Dr. Hongjun Zhang, ICAMA, China</i>	
<b>11:00-11:30</b>	<b>Report on Progress Made Towards GLP Compliance in China</b> <i>Invited Speaker: Tiechun Chen, ICAMA, China</i>	
<b>11:30-12:00</b>	<b>Importance of Pesticide Regulatory Data and CBI Protection to Innovation in the Plant Protection Industry</b> <i>Speaker: Ying Song, DuPont, China</i>	
<b>Session II</b>	<b>Pesticide Residues in Food and International Trade Standards</b>	<b>Conference Room 203-A</b>
<b>Chairmen:</b>	<i>Dr. Hiroto Tamura, Meijo University, Japan</i> <i>Prof. Yongquan Zheng, Chinese Academy of Agricultural Sciences, China</i> <i>Dr. Gijs A. Kleter, Wageningen University and Research Center, Netherlands</i>	
<b>II -5</b>	<b>Data Generation Research Supporting Registration and MRL Retting</b>	
<b>Co-chairs:</b>	<i>Prof. Canping Pan, China Agricultural University, China</i> <i>Dr. Mohammad Babadoost, University of Illinois, USA</i>	
<b>11:00-11:25</b>	<b>Evaluating Effectiveness of Fungicides for Control of Phytophthora Capsici in Cucurbits</b> <i>Invited Speaker: Mohammad Babadoost, University of Illinois, USA</i>	

11:25-11:50	<p><b>The IR-4 Program: Establishment of Priorities, Coordination with the EPA and the Crop Protection Industry</b></p> <p><i>Invited Speaker: Wayne Jiang, Michigan State University, USA</i></p>
11:50-12:10	<p><b>Different Behaviors of Pesticide Residue in Open Field and Greenhouse</b></p> <p><i>Invited Speaker: Canping Pan, China Agricultural University, China</i></p>
12:10-12:30	<p><b>Adjusting the Directions for Use of Agri-chemicals by Supervised Residue Trials' Data-cases in China</b></p> <p><i>Invited Speaker: Chunzheng Zhang, Jiangsu Academy of Agricultural Sciences, China</i></p>
12:30-12:50	<p><b>Occurrence of Insecticide Biomarkers of Malathion in Produce and Their Absorption and Excretion in the Rat</b></p> <p><i>Speaker: Li Chen, China Agricultural University, China</i></p>
<b>Session III</b>	<p><b>Environmental Fate, Exposure Modeling and Risk Assessment of Pesticides</b></p> <p><i>Dr. James N. Seiber, University of California, USA</i></p> <p><b>Chairmen:</b> <i>Prof. Fengmao Liu, China Agricultural University, China</i> <i>Dr. Arata Katayama, Nagoya University, Japan</i></p>
<b>III -6</b>	<p><b>Residue Problem, Remediation of Pesticides in the Environment</b></p> <p><i>Dr. Yong-Hwa Kim, Korea Institute of Toxicology, Republic of Korea</i></p> <p><b>Co-chairs:</b> <i>Prof. Katayama Arata, Nagoya University, Japan</i> <i>Prof. Jingchun Tang, Nankai University, China</i></p>
11:05-11:30	<p><b>Monitoring of Pesticides, and Co-contaminated Polychlorinated Biphenyls and Cadmium in Biochemical Assays for Environmental Safety</b></p> <p><i>Invited Speaker: Hideo Ohkawa, Kobe University, Japan</i></p>
11:30-11:50	<p><b>Reduction of Dieldrin Residue in Cucurbits</b></p> <p><i>Invited Speaker: Nobuyasu Seike, National Institute for Agro-Environmental Sciences, Japan</i></p>

**Conference Room  
203-B**



11:50-12:10	<p><b>Effect of Biochar on Remediation of Pesticide Residues - A Review</b></p> <p><i>Speaker: Wenying Zhu, Nankai University, China</i></p>
12:10-12:30	<p><b>Organochlorine Pesticide Residues in Water and Sediment of Lagos Lagoon, Nigeria</b></p> <p><i>Speaker: Akan B. Williams, Covenant University, Nigeria</i></p>
<b>III -3</b>	<p><b>Pesticide Fate, Exposure Modeling in the Environment (Algae, Planktonic Organisms, Aquatic Insects, Wild lives, etc.)</b></p> <p><i>Dr. Philip Lee, East China University of Science and Technology, China</i></p> <p><b>Co-chairs:</b> <i>Dr. Yuso Kobara, National Institute for Agro-Environmental Sciences, Japan</i></p> <p><i>Prof. Fengmao Liu, China Agricultural University, China</i></p>
14:00-14:20	<p><b>Metabolomic and Proteomic Responses of Burkholderia sp. C3 to Carbaryl and Other N-Methylcarbamates</b></p> <p><i>Invited Speaker: Qingxiao Li, University of Hawaii, USA</i></p>
14:20-14:40	<p><b>Uptake and Metabolism of Acephate in Tomatoes</b></p> <p><i>Invited Speaker: Rimao Hua, Anhui Agricultural University, China</i></p>
14:40-15:00	<p><b>Evaluation of Influences of Paddy-field Herbicides on the Aquatic Ecosystem Using 'Mesocosm'</b></p> <p><i>Invited Speaker: Tetsuro Muraoka, Institute of Japan Association for Advancement of Phyto-regulators, Japan</i></p>
15:00-15:20	<p><b>Rapid Detection and Classification of Pesticide-Degrading Bacteria Using S10-GERMS Method by MALDI-TOF MS</b></p> <p><i>Invited Speaker: Hiroto Tamura, Meijo University, Japan</i></p>
15:20-15:40	<p><b>Assessing Pesticide Leaching Potential in Southern China Paddy Field by Groundwater Ubiquity Score</b></p> <p><i>Speaker: Yue Geng, China Agricultural University, China</i></p>

15:40-16:00	Can Computational Technology Adequately Predict the Physico-Chemical Properties, Environmental and Toxicological Behavior of Organic Chemicals? <i>Invited Speaker: Philip Lee, East China University of Science and Technology, Shanghai, China</i>	
16:00-16:15	Coffee Break	
Session IV	<b>Pesticide Quality, Formulation and Application Techniques</b>	Conference Room 201-C+D
	<i>Prof. Xiongkui He, China Agricultural University, China</i> <i>Prof. Andrew Landers, Cornell University, USA</i>	
Chairmen:	<i>Dr. Takeo Okochi, Agrochemicals Research Center, Mitsui Chemicals Agro Inc., Japan</i> <i>Dr. Andreas Herbst, Julius-Kuehn-Institute, Germany</i>	
IV -6	<b>Application Techniques for Efficient Deposition on the Target</b>	
Co-chairs:	<i>Prof. Tiansheng Hong, Southern China Agricultural University, China</i> <i>Dr. Takeo Okochi, Mitsui Chemicals Agro Inc., Japan</i>	
11:00-11:30	The Influence of Droplet Characteristic and Nozzle Height on the Spray Drift Index of the Drift Reduction Nozzle Using in Japan <i>Speaker: Geng Bai, Niigata University, Niigata city, Japan</i>	
11:30-11:50	Analysis and Microscopic Test of Deposit Position of Spraying Droplets on Rice Leaves <i>Speaker: Jianli Song, China Agricultural University, China</i>	
11:50-12:10	Research on Droplets and Air Flow Field of Air-assisted Orchard Sprayer <i>Speaker: Xiaolan Lv, Nanjing Institute for Agricultural Mechanization, China</i>	
12:10-12:30	Application of Ultrasound-assisted Emulsification-microextraction for the Analysis of Organophosphorus Pesticides in Tomato Juice and Green Tea Beverage <i>Speaker: Zhonghua Yang, China Agricultural University, China</i>	

<b>IV -7</b>	<b>New Formulation Techniques</b>
<b>Co-chairs:</b>	<i>Dr. Huizhu Yuan , Chinese Academy of Agricultural Sciences, China</i> <i>Dr. Jane Bonds, Bonds Consulting Group LLC, USA</i>
<b>14:00-14:20</b>	<b>Current Trend of Tank Mix Adjuvants in Japan</b> <i>Speaker: Kazuo Kawashima, BASF, Japan</i>
<b>14:20-14:40</b>	<b>Low Use-rate Adjuvant Compositions for Glyphosate Formulations</b> <i>Speaker: Fengqi He, Momentive Performance Materials Inc., China</i>
<b>14:40-15:00</b>	<b>Optimisation of the Biological Performance of Agrochemicals After Spray Application</b> <i>Speaker: Klaus Kunz, Bayer CropScience AG, Germany</i>
<b>15:00-15:20</b>	<b>Development of High Performance Wetting Adjuvant for Pesticides</b> <i>Speaker: Masatoshi Kamei, Kao Corporation, Japan</i>
<b>15:20-15:40</b>	<b>Minimizing Spray Drift by Incorporating Application Parameters into Formulation Design</b> <i>Speaker: Kuide Qin, Dow AgroSciences, USA</i>
<b>15:40-16:00</b>	<b>Construction of Novel Amphiphilic Chitosan Copolymer Nanoparticles for Chlorpyrifos Delivery</b> <i>Speaker: Jiakun Zhang, Chinese Academy of Agricultural Sciences, China</i>

Session V		Conference Room
New Pesticide Discovery and Synthesis		201-A+B
<i>Prof. Zhengming Li, Nankai University, China</i>		
<b>Chairmen:</b>	<i>Prof. Xinling Yang, China Agricultural University, China</i>	
	<i>Dr. Tadao Asami, The University of Tokyo, Japan</i>	
<b>V - 4</b>	<b>New Crop Protection Solutions -- Reduced Risk Pesticides, Biopesticides, IPM etc.</b>	
<b>Co-chairs:</b>	<i>Prof. Hongwu He, Central China Normal University, China</i>	
	<i>Prof. Hideo Nakashita, Tokyo University of Agriculture, Japan</i>	
<b>11:00-11:30</b>	<b>Use of an Endophytic Bacteria to Control Diseases of Rice</b>	
	<i>Invited Speaker: Hideo Nakashita, Tokyo University of Agriculture, Japan</i>	
<b>11:30-12:00</b>	<b>Pyroxasulfone: A New Soil Active Herbicide for Weed Control</b>	
	<i>Speaker: Yoshihiro Yamaji, Kumiai Chemical Industry Co., Ltd., Japan</i>	
<b>12:00-12:30</b>	<b>Insect Neuropeptide Allatostatins Mimetics, a New Approach to Insect Growth Regulators?</b>	
	<i>Invited Speaker: Xinling Yang, China Agricultural University, China</i>	
<b>V - 5</b>	<b>New Techniques and Methodology in Pesticide Discovery and Synthesis</b>	
<b>Co-chairs:</b>	<i>Prof. Zhen Xi, Nankai University, China</i>	
	<i>Prof. Yoshiaki Nakagawa, Kyoto University, Japan</i>	
<b>14:00-14:30</b>	<b>Design of Novel Molting Hormone Agonists/Antagonists</b>	
	<i>Invited Speaker: Yoshiaki Nakagawa, Kyoto University, Japan</i>	
<b>14:30-15:00</b>	<b>In Silico – An Efficient Technology in Pesticide Design</b>	
	<i>Invited Speaker: Jianhua Yao, Shanghai Institute of Organic Chemistry, China</i>	

15:00-15:20	Effect of Aromatic N-heterocyclic Organic Compounds on N <sub>2</sub> O Emission <i>Speaker: Hashidoko Yasuyuki, Hokkaido University, Japan</i>
15:20-15:40	Novel Alkyl Chain Ester Derivatives of Benzo-1,2,3-thiadiazole-7-carboxylate as Potent Plant Activators <i>Speaker: Yufang Xu, East China University of Science and Technology, China</i>
15:40-16:00	[3+2] Cycloadditions of Aromatic Azomethine Imines with Allenates <i>Speaker: Hongchao Guo, China Agricultural University, China</i>
Session VI	<b>Pesticide Mode of Action, Metabolism, and Resistance Mechanisms</b>
	<b>Conference Room 203-C</b>
Chairmen:	<i>Dr. Stephen O. Duke, United States Department of Agriculture, USA</i> <i>Prof. Chuanling Qiao, Chinese Academy of Sciences, China</i> <i>Dr. Kazuhiko Matsuda, Kinki University, Japan</i>
VI - 5	<b>Modes of Action and Resistance to Fungicides</b>
Co-chairs:	<i>Prof. Makoto Fujimura, Toyo University, Japan</i> <i>Prof. Xili Liu, China Agricultural University, China</i>
11:00-11:30	Comparative transcriptional profiling of <i>Neurospora crassa</i> and <i>Fusarium graminearum</i> in response to fungicides <i>Invited Speaker: Makoto Fujimura, Toyo University, Japan</i>
11:30-12:00	Mutation Resistance and Selectivity of Bioactive Compounds: Computational and Experimental Prediction <i>Invited Speaker: Zhen Xi, Nankai University, China</i>
12:00-12:30	Resistance to the Carboxylic Acid Amide (CAA) Fungicides in <i>Phytophthora capsici</i> <i>Invited Speaker: Xili Liu, China Agricultural University, China</i>

4<sup>th</sup> International Symposium on Pesticide and Environmental Safety

5<sup>th</sup> Pan Pacific Conference on Pesticide Science

8<sup>th</sup> International Workshop on Crop Protection Chemistry and Regulatory Harmonization

14:00-14:30	<b>Dicarboximide and Phenylpyrole Resistant Genes in Cochliobolus Heterostrophus, Dic2 and Dic3 Are Independent of HOG Pathway</b> <i>Speaker: Chihiro Tanaka, Kyoto University, Japan</i>
14:30-15:00	<b>The New Type of Fungicide, Pyribencarb: Mechanism of Action and Selectivity</b> <i>Speaker: Akihiro Moriwaki, Kumiai Chemical Industry Co., Ltd., Japan</i>
15:00-15:30	<b>Mode of Action and Resistance Mechanism of the Carboxylic Acid Amide (CAA) Fungicide Mandipropamid</b> <i>Speaker: Mathias Blum, Syngenta Asia Pacific Pte. Ltd., UK</i>
16:00-16:15	Coffee Break
16:15-17:30	<b>Poster Award and Closing Ceremony</b>
	Convention Hall No. 1, 2/F of BICC
<b>Chairs:</b>	<i>Prof. Baogen Gu, ICAMA, China</i> <i>Prof. John B. Unsworth, IUPAC Committee on Crop Protection Chemistry, UK</i> <i>Prof. Hiroshi Matsumoto, University of Tsukuba, Japan</i>

## Information for Presentation

### Oral presentation

The duration of each keynote lecturer is 35 minutes including 5-minute questions and answers.

The duration of each oral presentation at parallel sessions ranges from 20 minutes to 30 minutes including 5-minute questions and answers.

All oral presentations must be prepared in 4:3 format on Microsoft PowerPoint 2007 or 2003. Presentations in other formats will not be accepted.

All oral presenters are asked to provide a short 50-word biography to the conference secretariat in room 203-E one day before presentation. The biography should include name, institution, title and research field, achievements and interests. Please upload and test PPT in the conference secretariat in room 203-E before 12:00 one day prior to the presentation. It is not permitted for presenters to use their own laptops.

All oral presenters are required to meet their Session Chairpersons in the conference room allocated to the session 15 minutes prior to the scheduled session commencement time.

All conference rooms are equipped with audio-visual equipment which includes:

- PC
- Projector
- Lectern
- Microphone

### Poster Session

Poster boards will be in position from 8:30 am on Sunday September 16<sup>th</sup> on the 2<sup>nd</sup> floor of the venue.

Posters should be made in portrait orientation (90cm width x 120cm height) and mounted by the presenters between 9:00-18:00 on September 16<sup>th</sup>. Thumbtacks or adhesive tape are provided at the poster help desk on the 2<sup>nd</sup> floor.

Poster must be removed after 18:00 on September 19<sup>th</sup>. Posters not removed after the removal time will be disposed off.

**Obligatory Presence of Poster Authors**

All poster authors are requested at least one time to stand by the poster for questions and answers during the time below.

**Schedule**

	Sep 16 <sup>th</sup>	Sep 17 <sup>th</sup>	Sep 18 <sup>th</sup>	Sep 19 <sup>th</sup>
Poster Mounting	9:00-18:00			
Poster Viewing		10:15-11:00	10:15-11:00	10:15-11:00
Obligatory Presence of Poster Authors		10:15-11:00	10:15-11:00	
Poster Removal				17:30-18:00

**Poster Awards**

The Organizing Committee will issue a special certificate to award excellent poster authors at the closing ceremony on September 19<sup>th</sup>.



## General Information

### Venue

Beijing International Convention Center (BICC)

Add: No.8 Beichen Dong Road, Chaoyang District, Beijing 100101, China

Te: 0086 10 84985588

E-mail: [bcgh@bcghotel.com](mailto:bcgh@bcghotel.com)

Website: [www.bcghotel.com](http://www.bcghotel.com), [www.bicc.com.cn](http://www.bicc.com.cn)

### Registration

The registration desk is located in the lobby of Beijing International Convention Center and open on the following time.

September 15 <sup>th</sup>	Saturday	10:00-18:00
September 16 <sup>th</sup>	Sunday	08:30-22:00
September 17 <sup>th</sup>	Monday	07:30-18:00
September 18 <sup>th</sup>	Tuesday	08:00-18:00
September 19 <sup>th</sup>	Wednesday	08:00-18:00

### Exhibition

All registered participants are encouraged to visit the exhibition booths on the 2nd floor. The exhibition is open on the following time:

September 17 <sup>th</sup>	Monday	08:30-18:00
September 18 <sup>th</sup>	Tuesday	08:30-18:00
September 19 <sup>th</sup>	Wednesday	08:00-18:00

### Secretariat and PPT Preview and Upload

Conference Secretariat in room 203-E, 2/F of BICC

Working hours:

September 15 <sup>th</sup>	Saturday	10:00-18:00
September 16 <sup>th</sup>	Sunday	08:30-22:00
September 17 <sup>th</sup>	Monday	07:30-18:00
September 18 <sup>th</sup>	Tuesday	08:00-18:00
September 19 <sup>th</sup>	Wednesday	08:00-18:00

### **Working Lunch**

The registration fee includes three working lunches from Sept. 17-19 in the banquet hall on the 2<sup>nd</sup> floor of Continental Grand Hotel. Please wear name badges and provide lunch coupons for lunches.

### **Name Badge**

Participants and registered accompanying persons are advised to wear their badges during all the events.

### **Wireless Internet Connection**

Wireless internet access is available in the conference area. Please connect to CMC-GJHY for it.

### **Business Center**

Charged photocopy, fax and internet service are available in the business center on the 2<sup>nd</sup> floor.

### **Banking and Postal Service**

A bank is located in the basement of Beijing International Convention Center where participants can exchange money. Beijing Continental Grand Hotel also provides money exchange service. A post office can be found to the east of Crown Plaza Park View Wuzhou Hotel.

### **Restaurants and Shopping**

There are many restaurants of different culinary styles around the conference venue. Shopping of daily necessities can be made at North Star Plaza or North Star Shopping Center.

### **Getting around**

#### **Taxi**

Taxi cabs can be found in front of BICC and Beijing Continental Grand Hotel. On street, you can wave your arm to hail an empty cab. Since most taxi drivers cannot communicate in English it is advisable to have the name of your destination written in Chinese on a small piece of paper. Please do not forget to bring along the address of your hotel, so that you always can return back to hotel.

Taxis are metered. Please pay the fare according to the meters when you get out. The machine will also print out receipts automatically for you. The cost is 2RMB per kilometer, within the first 15 km; additional kilometers will cost 3RMB/km.

#### **Subway.**

The nearest subway station is Olympic Sports Center on line 8 which is about 20 minutes' walk to the north of Beijing International Convention Center. The cost is 2RMB per ride with free transfers from line to line. At the rush hours the subway is crowded.

### **Personal Safety**

Beijing is safe but you still have to keep your passport and the valuables in a safe place, such as the personal safe in your hotel room. Be aware of pickpockets in the crowds. In case of loss of passport,

contact the local police and the embassy of your country.

### **First Aid and Medical Service**

The telephone number for the first aid is 120 or 999. Several hospitals in Beijing are staffed with English speaking physicians. The following telephone numbers may help:

China-Japan Friendship Hospital: 84205288 / 84205299

Peking Union Medical College Hospital: 65296114

### **Smoking**

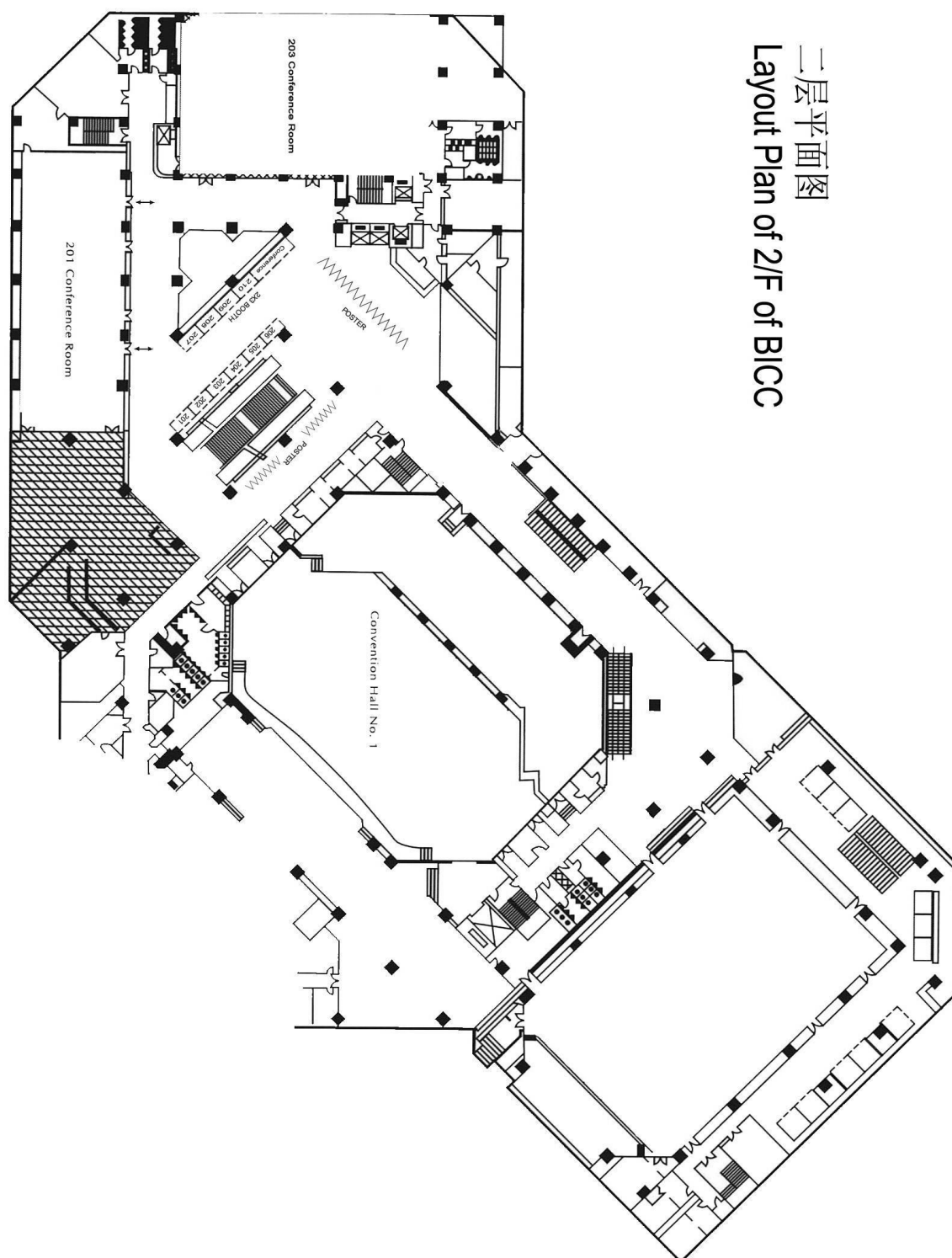
Smoking is not allowed in Beijing International Convention Center.

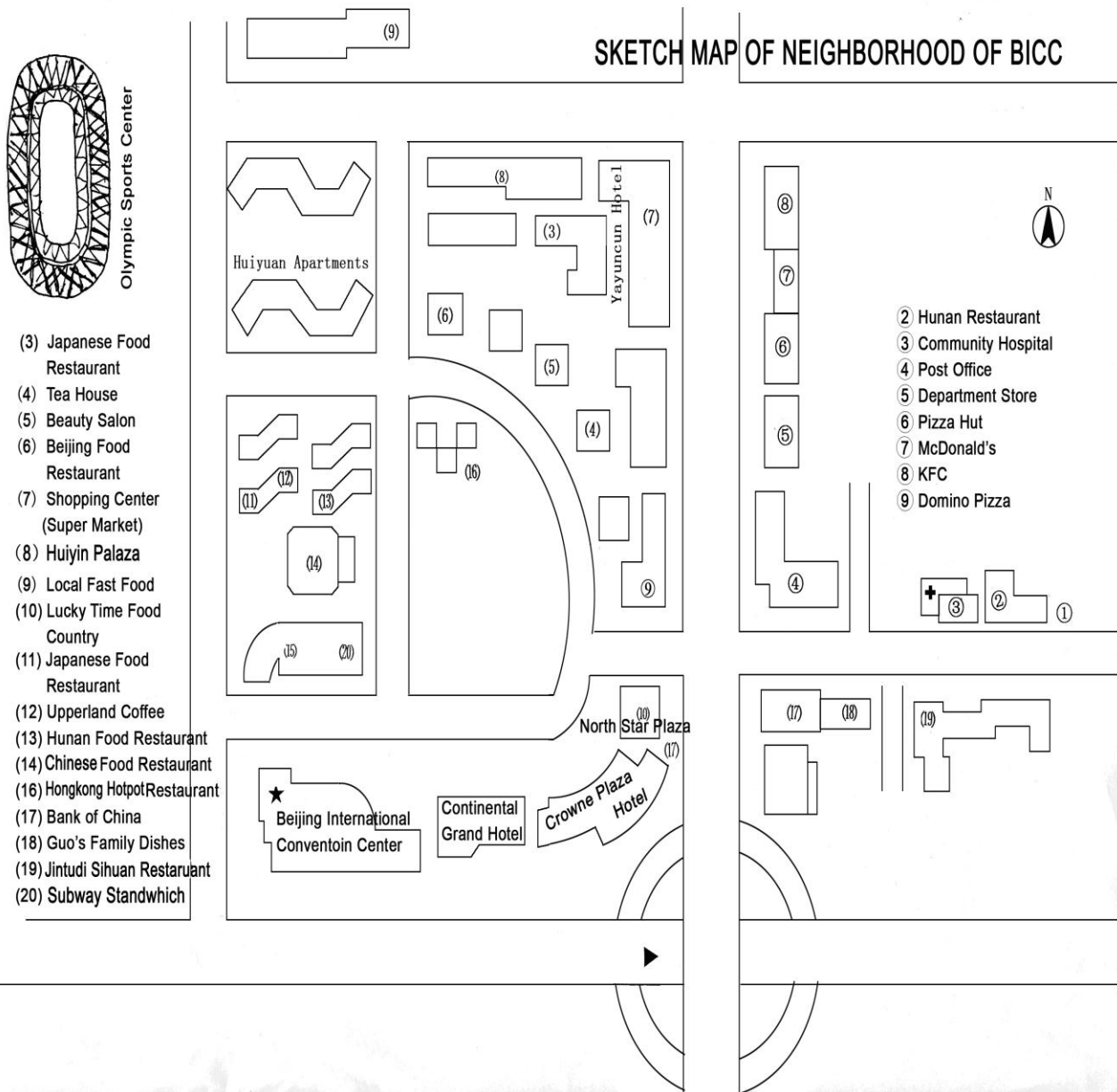
### **Travel Information Desk**

Travel information is available at the registration desk in the lobby of Beijing International Convention Center.

### **Disclaimer**

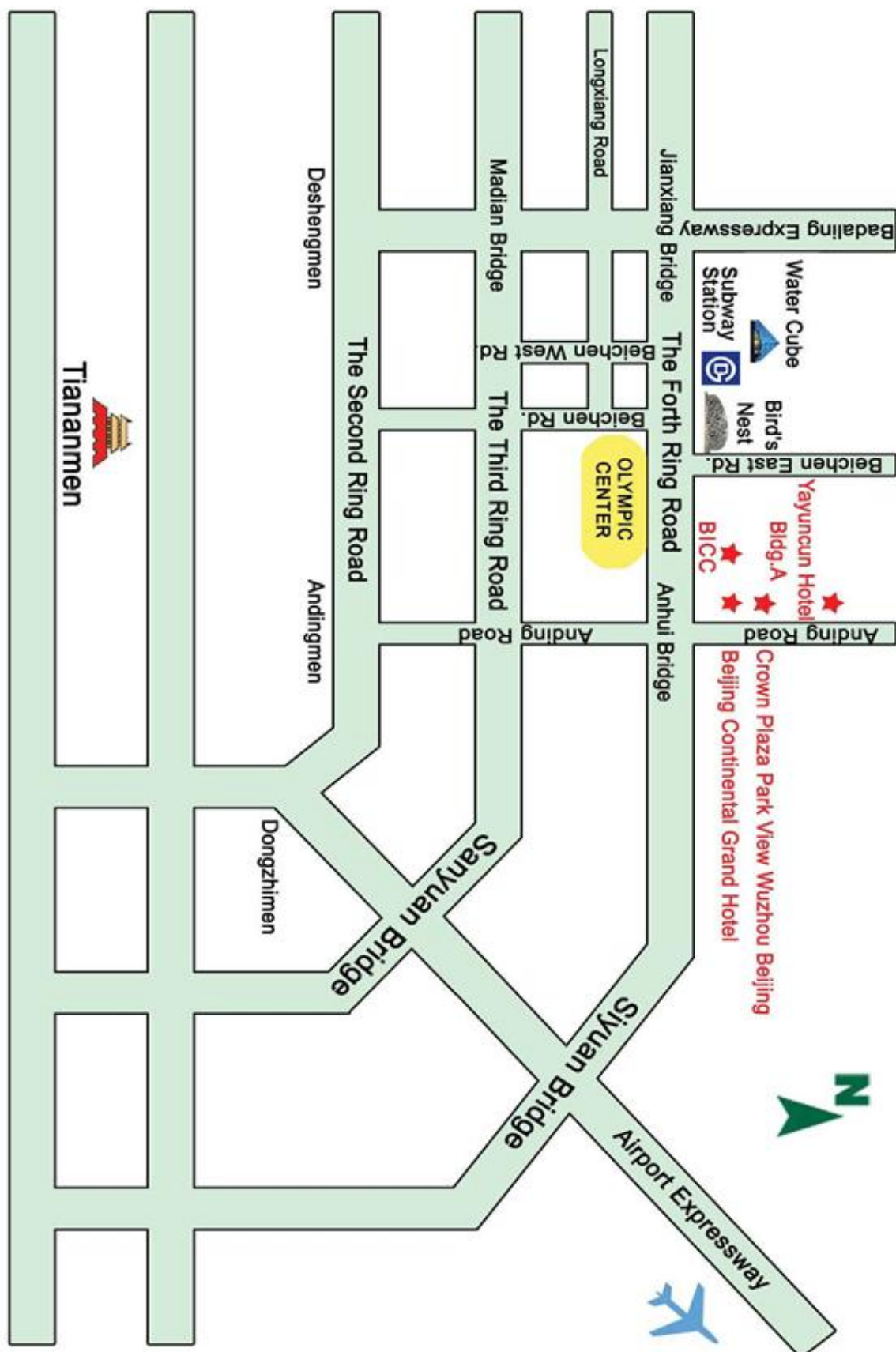
The Organizing Committee does not accept any liability for injuries/losses of whatever nature incurred by participants and/or accompanying persons, nor for loss or damage to their luggage and/or their personal belongings.















## 中化农化有限公司

SINOCHEM AGRO CO., LTD.

中化集团的农药业务涵盖产品研发、原药生产、制剂加工及分装、产品登记、品牌营销等产业链各环节，其中专利农药开发在国内居领先地位。农药业务经营规模位居国内前列。



中化集团下属的沈阳化工研究院有限公司（简称“沈阳院”）、浙江省化工研究院有限公司（简称“浙化院”）作为两大国家级农药研发平台，拥有国内领先的农药创制能力，承担了20余项国家级科技研究课题，目前有8个创制产品处于开发阶段。

沈阳院为中国农药研发的奠基者，为我国农药行业的发展作出了突出贡献。沈阳院是农药国家工程研究中心、国家农药质量监督检验中心和农药安全评价中心的依托单位，拥有新农药创制与开发国家重点实验室，具有从化合物设计合成、生产工艺开发、生物活性测定及应用技术开发、制剂加工、安全评价直至商品化开发的完善的农药研发体系。沈阳院安全评价中心和农药检验实验室已顺利通过OECD成员国荷兰政府的GLP认证，对促进国内农药化工产品走向国际市场将起到积极推动作用。

浙化院是国家南方农药创制中心浙江基地的依托单位，也是浙江省规模最大的科研开发类院所，主要从事含氟新农药等的研究、开发和生产。

中化集团在沈阳、南通、连云港等地拥有农药生产基地，品种覆盖杀虫剂、杀菌剂、除草剂和植物生长调节剂四大类共40余个有效成分，尤其是草甘膦、酰胺类除草剂、环己烯酮类除草剂、咪唑啉酮类除草剂、甲氧丙烯酸酯类杀菌剂、三唑类杀菌剂、烟碱类杀虫剂等核心产品均已实现规模化、系列化生产，在行业内具有重要影响。



### HERBICIDE

Glyphosate	95%TC, 41%IPA SL
Clethodim	94%TC, 12%EC, 24%EC, 36%EC
Imazethapyr	98%TC, 10%SL, 70%WP, 75%WG
Sulcotrione	95%TC, 15%SC, 30%SC
Sethoxydim	90%TC, 12.5%EC, 50%OEC
Tralkoxydim	95%TC, 30%SC, 40%WG
Bentazone	95%TC, 48%SL
Diffenican	95%TC, 50%SC
Fenoxaprop-P-ethyl	98%TC, 6.9%EW
Clomazone	98%TC, 48%EC
Chlorimuron-ethyl	98%TC, 25%WP, 25%WG
Pyrazosulfuron-ethyl	98%TC, 10%WP
Tebuthiuron	95%TC, 20%GR

### FUNGICIDE

Tebuconazole	97%TC, 60g/IFS, 120g/IFS, 250g/IEW, 430g/ISC
Epoxiconazole	97%TC, 12.5%SC, 80%WP
Flumorph(SYP-L190)	90%TC, 20%WP
Flumorph+Mancozeb	50%WP, 60%WP
Mancozeb	88%TC, 80%WP
Flumorph+Fosetyl-aluminium	50%WP, 50%WG
Epoxiconazole+Carbendazim	25%SC
Fenaminstrobil(SYP-1620)+Tebuconazole	20%SC
Enestrobin(SYP-Z071)	90%TC, 25%EC
Azoxystrobin	95%TC
Fluazinam	98%TC, 50% SC

### INSECTICIDE

Imidacloprid	95%TC, 20%SL, 24%SC, 70%WP, 75%WG
Malathion	90%TC, 25%WP, 500g/L EC, 50%WP
Fenitrothion	95%TC, 500g/L EC, 50%WP, 70%WS, 70%WG
Fipronil	95%TC, 50g/L SC, 80%WG
Carbofuran	90%TC, 3%GR
Propargite	90%TC, 57%EC, 730g/L EC
Methiocarb	2%RB

### PLANT GROWTH REGULATOR

Paclobutrazol	97%TC, 15%WP
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中化农化有限公司  
SINOCHEM AGRO CO., LTD.

[www.sinochemsh.com](http://www.sinochemsh.com)

The crop protection business is an important component in Sinochem's agricultural business segment. Its business scope covers R&D, Active Ingredient production, pesticide formulating and repackaging, product registration, and brand marketing, among which we are taking the lead in China in the proprietary pesticide development. Moreover, scale of operation in the business of pesticides has also taken the lead in China.

Sinochem Group owns two national crop protection R&D platforms, namely the Shenyang Research Institute of Chemical Industry (Shenyang Institute for short) and Zhejiang Research Institute of Chemical Industry Ltd. (Zhejiang Institute for short). These two institutes have strong innovation capacity in China, and have shouldered around 20 national-level R&D projects. At present, 8 proprietary products are under development.

Shenyang Institute was the first to research and develops pesticides, contributing to pesticide industry in China. As the supporting institution of Nation Pesticides Quality Supervision and Inspection Center and National Center for Safety Evaluation of New Drugs, the Institute owns the key labs for the research and production of new pesticides, thus creating a complete system for the development of pesticides, ranging from the design synthetic compounds, production process development, bioactivity assay, application technology development, preparation processing, safety evaluation to commercialized development. At present, Shenyang Institute's testing and evaluation center for "toxicity studies and clinical chemistry analysis" as well as pesticide testing lab were both granted the GLP credential by the government of Holland, the OECD member state. The acquisition of these international credentials is conducive for Chinese pesticide and other chemical products to go global.

As the supporting institution of National Pesticide Research and Development South Center Zhejiang Base, Zhejiang Institute is also the largest research center, with its tasks including research, development and production of new pesticide containing fluorine.

Our company owns production base for pesticides in Shenyang, Nantong and Lianyungang, etc., with crop-protection product lines including pesticides, fungicides, herbicides, and plant growth regulators, covering over 40 active ingredients.

In particular, such core products as glyphosate, amide herbicides, cyclohexenone herbicides, imidazolinone herbicides, methoxy acrylate, fungicides, triazole fungicides, neonicotinoid insecticides have already realized scale production and created strong industrial presence. The production scale and process for some products.

地 址：上海市河南南路33号新上海城市广场17-19楼 邮编：200002

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电话TEL: 8621-63289888

传真FAX: 8621-63283968





# 穎出自然 泰立天下



## 北京颖泰嘉和生物科技有限公司 Nutrichem Company Limited

北京颖泰嘉和生物科技有限公司 (Nutrichem Company Limited) 主要从事具有高技术性和良好国际市场前景的药物、化学中间体、手性异构体及高效、低毒、低残留化学农药新品种以及专业领域精细化工产品的研发、生产、销售及技术服务；为进入国际市场的医药、兽药、农药化学品以及其它精细化工原材料提供符合GLP（良好试验室规范）国际标准的分析检测服务和产品登记注册咨询服务等。

我们：

- 连续三年位居同行业出口首位，产品主要涉及除草剂、杀菌剂、杀虫剂原药、中间体及安全剂等；
- 现有全资或控股四家、参股一家共五个国家定点农药生产基地，坚持不懈地致力于HSE管理体系的建设和持续改进；
- 拥有由董事长亲自领导的创新与研发委员会、独立的责任关怀委员会；
- 拥有大陆首家通过OECD认证的GLP实验室；

我们一直以成为国内优秀农化公司为己任，把“可持续发展”建设成为贯穿公司所有环节的科学管理体系，持续改进在环境保护和社会责任方面的表现，促进企业可持续和长久发展。

Nutrichem Company Limited is mainly engaged in research and development, manufacturing, marketing of hi-tech drugs, intermediate and chiral-/agrochemicals of high efficacy, low toxicity and low residue and with good market perspective. Meanwhile we provide GLP service of analysis and registrations for international market access.

"Nourish Plants, Care for people"

We, Nutrichem, are/have

- Top exporter of agrochemical in China for past three consecutive years, full portfolio of herbicides, fungicides, insecticides, intermediates, PGR and safener.
- Four share-controlling and one non-shareholding manufacturing sites with pesticide production license. We commit to continuous improvement of HSE management
- Committee of innovation and R&D personally led by Chairman of Board, independent Committee of responsible care
- First OECD recognized GLP laboratory in China

Our vision is to become best agrochemical company in China. We have set up scientific management system concerning all aspects based on the principle of Sustainable Development. We keep improving our performance in environmental protection and social responsibility so as to realize sustainable and long-term development.

NUTRICHEM COMPANY LIMITED

Address: Building D-1, No. 66 Xixiaokou Road, Haidian District, Beijing 100192, P. R. China

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# GLP

## Good Laboratory Practice

良好实验室管理规范



### Who are we?

- >The first China Mainland laboratory certified for OECD GLP Compliance
- >Authorised by China ICAMA for 5 batch analysis and physical chemical property study for China pesticide registration
- >One of the first laboratories certified by the ICAMA GLP Monitoring Programme

### Focused services:

#### >Analytical chemistry

- ✓5 Batch analysis: Active ingredients, impurities present at or greater than 0.1% (or 0.06%), relevant impurities;
- ✓Impurity profiling;
- ✓Identification of impurities;
- ✓Synthesis and certification of impurity standards;
- ✓Analytical method development and validation.

#### >Physical and chemical property studies

- ✓EU A series;
- ✓China MoA NY/T 1860 series;
- ✓EPA OPPTS 830 series;
- ✓OECD 100 series.

### Our Advantages:

- ✓Strong support from our R&D team;
- ✓Highly experienced experts in analytical and organic chemistry, QA and pesticide registration;
- ✓Organic combination of state-of-the-art facilities and equipment with cost and time-efficient services;
- ✓Rapid turnaround of test results and reports.

#### >Stability tests

- ✓Stability at elevated temperature (54°C, 45°C, 40°C, 35°C或30°C);
- ✓Stability at low temperature (0°C, freezing/thawing);
- ✓Stability at normal temperature;
- ✓Stability to light;
- ✓Stability to metals and metalions.

#### >Quality assurance and consultation

- ✓Facility inspection;
- ✓Study monitoring;
- ✓Study audit;
- ✓OECD/USEPA/ICAMA GLP principles/regulations.

#### >Registration consultation

- ✓US EPA;
- ✓Europe;
- ✓South American countries;
- ✓China;
- ✓EPA.

#### >Studies being implemented

- ✓Environmental behaviours and fate;
- ✓Genotoxicology;
- ✓Residual studies.

TGA/DSC 1  
STAR® System



NUTRICHEM LABORATORY CO., LTD.

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E-mail: [GLP@nutriechem.com](mailto:GLP@nutriechem.com)



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北京市朝阳区东三环北路27号拜耳中心(100020) 电话: 010-65893000  
[www.bayercropscience.com.cn](http://www.bayercropscience.com.cn)



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联系电话：010-62895463  
传真：010-62890541  
网址：<http://www.zhongbaony.com>

中国农科院植保所农药厂是中国农科院植保所直属农药企业，拥有得天独厚的国家植保科研机构独资背景，是以“一流人才、一流文化、一流管理、一流环境、一流效益”为目标，创建的集科技研发、生产销售、植保服务于一体的农化先进单位。企业“尊重人、培养人、提升人”，以高度的团队精神凝集了全体同仁的创新能力，研制生产出“中保”品牌系列产品，和谐环保、品质精湛，以“国货精品”的强大优势活跃于大田作物、果树蔬菜、城市园林、卫生杀虫等领域。本厂产品有杀虫剂、杀菌剂、除草剂、生长调节剂及微肥等，深受广大经销商和农民朋友的好评。



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**康宽®**  
杀虫剂



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创造科学奇迹

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