

Handbook for

**THE 1ST INTERNATIONAL WORKSHOP OF
IOBC-APRS-PREDATORY MITES AS BIOLOGICAL
CONTROL AGENTS WORKING GROUP**



May 15-19th, 2016

Beijing, P.R. China

ORGANIZERS

- IOBC-APRS-Predatory Mites as Biological Control Agents Working Group
- Institute of Plant Protection, Chinese Academy of Agricultural Sciences
- State Key Laboratory for Biology of Plant Diseases and Insect Pests
- Chinese Society of Plant Protection
- Beijing Leafy Vegetables Innovation Team of Modern Agro-industry Technology Research System

HONORARY CONSULTANTS

- Prof. Dr. Kongming Wu, Academician, Vice President of CAAS
- Prof. Dr. Barbara Barratt, President of IOBC
- Prof. Dr. Jianqing Ding, Vice President of IOBC
- Prof. Dr. Xueping Zhou, Director of IPP-CAAS
- Prof. Dr. Dewen Qiu, Vice Director of IPP-CAAS
- Prof. Dr. Jie Zhang, Vice Director of IPP-CAAS

SCIENTIFIC COMMITTEE

- Dr. Zhiqiang Zhang, Landcare Research & University of Auckland, New Zealand
- Dr. Eric Palevsky, Ministry of Agriculture, Israel
- Dr. Huai Liu, Southwest University, Chongqing, China
- Dr. Yanxuan Zhang, Institute of Plant Protection, Fujian Academy of Agricultural Sciences, Fujian, China
- Dr. Xuenong Xu, IPP-CAAS
- Dr. Yulin Gao, IPP-CAAS



AGENDA

THE 1ST INTERNATIONAL WORKSHOP OF IOBC-APRS-PREDATORY

MITES AS BIOLOGICAL CONTROL AGENTS WORKING GROUP

(May 15-19th, 2016, Beijing, P.R. China)

Sunday, May 15 th , 2016		
Time	Activities	Location
13:00-18:00	Check in-Registration	Holiday Inn Express Shangdi
18:00-21:00	Welcome Reception	Holiday Inn Express Shangdi

Monday, May 16 th , 2016		
Time	Activities	Location
6:30-8:30	Breakfast (Shuttle bus departs at 8:30 from Holiday Inn to IPP-CAAS)	Holiday Inn Express Shangdi/ Yujingxiang Business Hotel
9:00-9:40	Opening Ceremony Host: Dr. Gao, Yulin , Vice President of IOBC-APRS	IPP-CAAS
	Opening and Welcome Remarks by Dr. Qiu, Dewen , Vice Director of IPP-CAAS	
	Welcome Remarks by Dr. Barbara Barratt , President of IOBC	
	Welcome Remarks by Dr. Xu, Xuenong , Professor, IPP-CAAS, Working group convenor	
	Group Picture	

9:40-11:40	Special Talks Host: Dr. Ding, Jianqing , Vice President of IOBC	IPP-CAAS
9:40-10:20	IOBC and the Asia and Pacific Regional Section Presenter: Dr. Barbara Barratt , President of IOBC	
10:20-11:00	A brief introduction of Institute of Plant Protection, Chinese Academy of Agricultural Sciences Presenter: Dr. Qiu, Dewen , Vice Director of IPP- CAAS	
11:00-11:40	Advances in research and applications of predatory mites in China Presenter: Dr. Xu, Xuenong , Professor, IPP-CAAS, Working group convenor	
12:00-13:30	Lunch	Yujingxiang Restaurant
13:30-15:40	Session I: Biology, Behavior, and Interactions between predatory mites and pests Host: Dr. Wang, Jingjun , Professor, Assistant to the President, Southwest University, P.R. China	IPP-CAAS
13:30-14:00	Mechanisms and cascading effects on plant-herbivore-predator interactions: From the laboratory to the field Presenter: Dr. Eric Palevsky , Researcher, Acarologist, Dept. of Entomology, Newe-Ya'ar Research Center, Agricultural Research Organization, Ministry of Agriculture, Isreal	
14:00-14:20	Functional response of <i>Neoseiulus californicus</i> and <i>Neoseiulus longispinosus</i> (Acari: Phytoseiidae) on <i>Tetranychus urticae</i> and <i>Tetranychus kanzawai</i> (Acari: Tetranychidae) Presenter: Dr. Song, Ziwei , Assistant Professor, Institute of Plant Protection, Guangdong Academy of Agricultural Sciences, P.R. China	
14:20-14:40	Thermal strains of the predatory mite, <i>Neoseiulus barkeri</i> (Acari: Phytoseiidae) Presenter: Mr. Li, Yaying , PhD candidate, Institute of Plant Protection, Southwest University, P.R. China	
14:40-15:00	Feeding young by predacious mite to cope counter-attack of social spider mite Presenter: Ms. Lin, Gongyu , PhD candidate, University of Montreal and Anatis Bioprotection, Canada	
15:00-15:20	<i>Allothrombium</i> sp. (Acari: Trombidiidae) as biocontrol agent of pear psylla - first insights and phenological model Presenter: Ms. Nathalie Brenard , PhD candidate, Department of Biology, University of Antwerp, Belgium	
15:20-15:40	Coffee Break	

15:40-17:20	Session II: Field Application and Integrated Pest Management Host: Eric Palevsky , Researcher, Acarologist, Dept. of Entomology, Newe-Ya'ar Research Center, Agricultural Research Organization, Ministry of Agriculture, Isreal	IPP-CAAS
15:40-16:00	Monitoring population dynamics and structure of phytoseiid mites in orchards and tea fields Presenter: Dr. Norihide Hinomoto , Senior Researcher, Agricultural Research Center, National Agriculture and Food Research Organization, Japan	
16:00-16:20	Biology and predatory potential of <i>Neoseiulus longispinosus</i> (Evans) (Acari: Phytoseiidae) against red spider mite in pointed gourd, <i>Trichosanthes dioica</i> Roxb. (Cucurbitaceae) Presenter: Dr. Krishna Karmakar , Professor & In-Charge, AINP on Acarology, Department of Agril. Entomology, BCKV, India	
16:20-16:40	A novel use of predatory mites for dissemination of fungal pathogen for insect biocontrol: The case of <i>Amblyseius swirskii</i> and <i>Neoseiulus cucumeris</i> (Phytoseiidae) as vectors of <i>Beauveria bassiana</i> against <i>Diaphorina citri</i> (Psyllidae) Presenter: Dr. Zhang, Yanxuan , Professor, Institute of Plant Protection, Fujian Academy of Agricultural Sciences, P.R. China	
16:40-17:00	Interactions between <i>Beauveria bassiana</i> and the <i>Neoseiulus barkeri</i> and biological control of <i>Frankliniella occidentalis</i> Presenter: Dr. Wu, Shengyong , Assistant Professor, Institute of Plant Protection, Chinese Academy of Agricultural Sciences	
17:00-17:20	Prospects and opportunities for mite biological control with Southeast Asia's cassava crops (<i>video presentation</i>) Presenter: Dr. Kris Wyckhuys , Associate Professor, International Centre for Tropical Agriculture (CIAT), Agricultural Genetics Institute, Vietnam	
18:00-21:00	Gala Dinner	Yujingxiang Restaurant

Tuesday, May 17th, 2016

Time	Activities	Location
6:30-8:30	Breakfast (Shuttle bus departs at 8:30 from Holiday Inn to IPP-CAAS)	Holiday Inn Express Shangdi/ Yujingxiang Business Hotel
9:00-10:40	Session III: Survey, Evaluation, and Mass Rearing Host: Dr. Norihide Hinomoto , Senior Researcher, Agricultural Research Center, National Agriculture and Food Research Organization, Japan	IPP-CAAS
9:00-9:20	A conspectus of medicinal plant associated predatory mites of India and their potentiality in pest management programme Presenter: Dr. Salil Kumar Gupta , Senior Scientist, Dept. of Science & Technology, Ministry of Science & Technology, Govt of India	
9:20-9:40	The story of <i>Neoseiulus californicus</i> Chinese strain: how we evaluate a new species or strain Presenter: Dr. Lv, Jiale , Post-Doctoral Research Assistant, Institute of Plant Protection, Chinese Academy of Agricultural Sciences	
9:40-10:00	Verification of specific status of <i>Allothrombium fuliginosum</i> (Hermann, 1804) and <i>A. pulvinum</i> Ewing, 1917 (Actinotrichida, Trombididae), potential agents in warfare against orchard pests Presenter: Dr. Magdalena Felska , Assistant professor, Department of Invertebrate Systematics and Ecology, Biology Institute, Wrocław University of Environmental and Life Sciences, Poland	
10:00-10:20	Fine structure of mouthparts and gnathosoma of Tetranychidae and Phytoseiidae Presenter: Ms. Liu, Shan , Master student, Institute of Plant Protection, Chinese Academy of Agricultural Sciences	
10:20-10:40	Greenhouse performance of cold-stored indigenous population of <i>Phytoseiulus persimilis</i> (Acari: Phytoseiidae) against <i>Tetranychus urticae</i> (Tetranychidae) in two host plants species Presenter: Dr. Cengiz Kazak , Professor, Dept. of Plant Protection, Çukurova University, Turkey	
10:40-11:00	Coffee Break	
11:00-11:30	<ul style="list-style-type: none"> • Discussion about next workshop of the working group • Reward presentation for young scientist presentation competition 	IPP-CAAS

11:30-12:00	Short visit in IPP	IPP-CAAS
12:00-13:30	Lunch (Shuttle bus departs at 13:30 to Noah Organic Farm, ca. 1.5 hrs driving)	Yujingxiang Restaurant
13:30-18:00	Field trip to Noah Organic Farm, Pinggu, Beijing (natural enemy production, predatory mite application, and integrated pest management)	Noah Organic Farm
18:00-20:00	Dinner (Shuttle bus departs at 20:00 to Holiday Inn Express Shangdi, ca. 1.5 hrs driving)	Noah Organic Farm

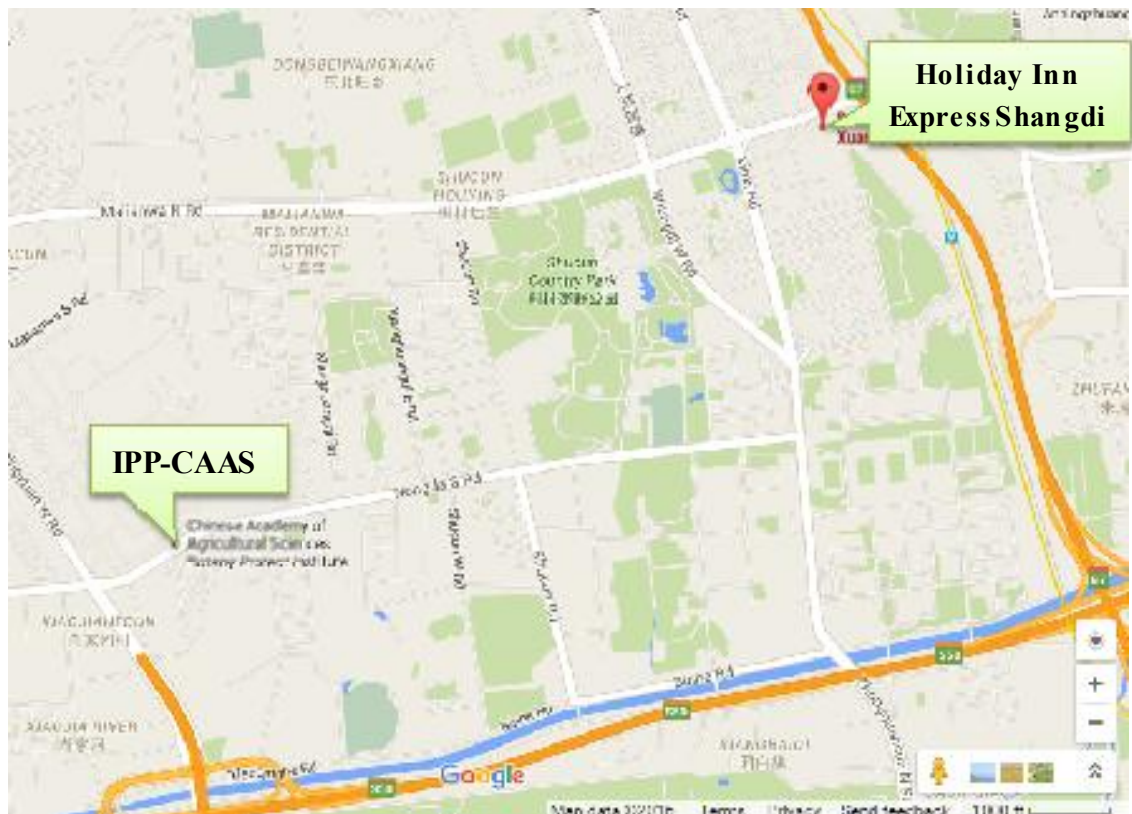
Wednesday, May 18th, 2016 (Full-day Excursion)

Time	Activities	Location
6:30-8:30	Breakfast (Shuttle bus departs at 8:30 from Holiday Inn)	Holiday Inn Express Shangdi/ Yujingxiang Business Hotel
8:30-	Field excursion	

Thursday, May 19th, 2016

Time	Activities	Location
Whole Day	Departure	Holiday Inn Express Shangdi/ Yujingxiang Business Hotel

TRANSPORTATION & CONTACTS



Transportation Information

Beijing Capital International Airport

To Holiday Inn Express Shangdi

1. **Airport Shuttle Line 6**
7:20-22:00, maximum departing time interval 40 mins. Ticket: 24RMB.
2. Taxi, charged based on distance, ca. 100-120 RMB.

To IPP-CAAS

1. **Metro Airport Express** (T1, T2, or T3 to Sanyuanqiao Station, 三元桥站),
Metro Line 10 (Sanyuanqiao Station, 三元桥站 to Haidian Huangzhuang Station, 海淀黄庄站),
Metro Line 4 (Haidian Huangzhuang Station, 海淀黄庄站 to Xiyuan Station, 西苑站, Gate B),
Bus 393 or 636 (Xiyuan Station, 西苑站 to Nodananglu Xikou Station 农大南路西口站),
Walk ca. 100 meters.
2. Taxi, charged based on distance, ca. 100-120 RMB.

Beijing South Railway Station

To Holiday Inn Express Shangdi

1. **Metro Line 4** (Beijing South Railway Station, 北京南站 to Zhongguancun Station, 中关村站),
Bus 614 (Zhongguancun Station, 中关村站 to Shangdiqiao Xi Station, 上地桥西站),
Walk ca. 200 meters.
2. Taxi, charged based on distance, ca. 85 RMB.

To IPP-CAAS

1. **Metro Line 4** (Beijing South Railway Station, 北京南站 to Xiyuan Station, 西苑站, Gate B),
Bus 393 or 636 (Xiyuan Station, 西苑站 to Nodananglu Xikou Station 农大南路西口站),
Walk ca. 100 meters.
2. Taxi, charged based on distance, ca. 80 RMB.

Beijing West Railway Station

To Holiday Inn Express Shangdi

1. **Metro Line 9** (Beijing West Railway Station, 北京南站 to National Library Station, 国家图书馆站),
Metro Line 4 (National Library Station, 国家图书馆站 to Xizhimen Station, 西直门站),
Metro Line 13 (Xizhimen Station, 西直门站 to Shangdi Station, 上地站),
Walk ca. 800 meters.
2. Taxi, charged based on distance, ca. 80 RMB.

To IPP-CAAS

1. **Metro Line 9** (Beijing West Railway Station, 北京西站 to National Library Station, 国家图书馆站),
Metro Line 4 (National Library Station, 国家图书馆站 to Xiyuan Station, 西苑站, Gate B),
Bus 393 or 636 (Xiyuan Station, 西苑站 to Nodananglu Xikou Station 农大南路西口站),
Walk ca. 100 meters.
2. Taxi, charged based on distance, ca. 50 RMB.

Beijing Railway Station

To Holiday Inn Express Shangdi

3. **Metro Line 2** (Beijing Railway Station, 北京站 to Xizhimen Station, 西直门站),
Metro Line 13 (Xizhimen Station, 西直门站 to Shangdi Station, 上地站),
Walk ca. 800 meters.
4. Taxi, charged based on distance, ca. 80 RMB.

To IPP-CAAS

3. **Metro Line 2** (Beijing Railway Station, 北京站 to Xizhimen Station, 西直门站),
Metro Line 4 (National Library Station, 国家图书馆站 to Xiyuan Station, 西苑站, Gate B),
Bus 393 or 636 (Xiyuan Station, 西苑站 to Nodananglu Xikou Station 农大南路西口站),
Walk ca. 100 meters.
4. Taxi, charged based on distance, ca. 50 RMB.



**VENUE: 4th Floor Conference Room,
National Agricultural Biosafety Science
Center, Institute of Plant Protection,
Chinese Academy of Agricultural
Sciences (IPP-CAAS)**

Contacts:

Xu, Xuenong

86-13811764889

Gao, Yulin

86-13552643313

Ly, Jiale

86-15026557375

**Other Members of
Conference Affairs:**

Wang, Endong

Hu, Yi

Wu, Shengyong

Zhang, Bo

Liu, Shan

Zhang, Baohe

Jia, Binghong

Yang, Jingyi

Jiang, Xiaohuan

Zhao, Wenlu

Han, Bing