# ICPBR Pollination Symposium Schedule

June 27-29, 2011

## Monday, June 27, 2011

### *8:30-10:00 Opening Session – UDLAP Rector, Peter Kevan, Carlos Vergara*

***10:00-10:30 Break***

### *10:30-1:00 Bees, Bionomics, Biosystematics, & Biodiversity in Pollination – Ricardo Ayala*

**10:30-10:50 Natural Protected Areas and the ecosystem services of pollination in Mexico**
Virginia Melendez

**10:50-11:10 Diversity of bees in Mexico, conservation and importance as pollinators**
Ricardo Ayala

**11:10-11:30 Managing Pests and Diseases in Commercial Bumblebee Production**
Alfonso Torres

**11:30-11:50 Stingless bees for beekeeping and crop pollination in Mexico, considerations for maintaining genetic diversity**
Javier Quezada

**11:50-12:10 The study of native bees in Guatemala: diversity, ecology and applicability**
Natalia Escobedo Kenefic, Enríquez, Eunice; Yurrita, Carmen Lucía; Dardón, María José; Vásquez, Mabel; Armas, Gabriela; Maldonado, Carlos; Bracamonte, María Fernanda; Rodríguez, Gabriela

**12:10-12:30 A Revision of the Cleptoparasitic Bee Genus *Coelioxys* (Hymenoptera: Megachilidae) in Canada**
Nick de Silva

**12:30-12:50 First report of oil collecting bees in three species of Papilionoideae (Leguminosae)**
Angela V. Etcheverry

**12:50-1:10 Behaviour of bumble bees and wasps visiting two large flowered *Scrophularia* species in the Iberian Peninsula**
Francisco Valtuena

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***1:10-2:20 LUNCH***

## *2:30-3:30 Plant Breeding and Mating Systems*

**2:20-2:50 Studies of intraplant pollen supply in modern and wild genotypes of sunflower (*Helianthus annuus*)?**
Astiz V.

**2:50-3:10 Are there and differences between orchid and non-orchid floral colours in through the eyes of insects in the natural communities?**
Mani Shrestha

**3:10-3:30 Pollination in the carrot family (Apiaceae): how specialized can a (morphologically) generalized plant be?**
Marcin Zych

***3:30-4:00 BREAK***

## *4:00-5:00 Pollination in India: modern case studies*

**4:00-4:15 Biodiversity of pollen, pollinators and conservation**
Dr. Sudhendu Mandal

**4:15-4:30 Studies on the pollination calendar and atmospheric pollen flora of allergenic plants of Asansol Industrial Belt, West Bengal, India**
Anindita Mandal and Sudhendu Mandal

**4:30-4:45 Floral biology and pollination of *Solanum sisymbrifolium* Lamk.**
Sudhendu Mandal

**4:45-5:00 Floral biology and pollen dispersal of *Pentapetes phoenicea* Linn.**
Sudhendu Mandal

## *5:00-7:00 Health Status of managed Apis mellifera colonies and pollination of agricultural crops – Jeff Petis and Peter Neumann*

**5:15-5:30 Honey bee colony losses in North America**
Jeff Pettis

**5:30-5:45 Honey bee viruses, newcomers or permanent residents**
Nor Chejanovsky

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**5:45-6:00 *Nosema ceranae* has existed in Mexico since at least 2004**
Ernesto Guzmán-Novoa

**6:00-6:15 Honey bee colony losses in Brazil and disease diagnosis efforts**
Erica W. Teixeira

**6:15-6:30** Rogel Villanueva Gutiérrez

**6:30-6:45 Colony losses in Europe and the COLOSS network**
Peter Neumann

**6:45-7:00 An Epidemiological approach to understanding colony losses?**
Dennis vanEngelsdorp

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## Tuesday June 28, 2011

### *8:30-10:00 Land Use Effect on Bee Biodiversity*

**8:30-8:45: Bee diversity along a forest regeneration gradient in western Kenya**
Mary Gikungu

**8:45-9:00: Drivers of non-Apis pollinators in California almond orchards and their benefit for almond pollination**
Claire Brittain

**9:00-9:15: The effect of coffee agriculture on bee diversity in Dak Lak, Vietnam**
H. T. Ngo

**9:15-9:30: The effects of fire on bee communities in Oak Savannah habitat in Southern Ontario, Canada.**
Alana Taylor-Pindar

**9:30-9:45 Agricultural landscape fosters rich native bumble bee diversity and abundance in Western USA**
Sujaya Rao

**9:45-10:30**: Remy Vandame/Javier Quezada

***10:00-10:30 BREAK***

### *10:30 – 12:00 Pollination in Greenhouses - Les Shipp and Patricia Silva*

**10:30-10:40 Introduction**

**10:40-11:10 Biovectoring/greenhouse pollinators**
Peter Kevan

**11:10-11:25 Crop pollination in greenhouses and the use of stingless bees in Mexico**
Virginia Melendez-Ramirez

**11:25-11:40 The potential use of *Melipona fasciculata*, a stingless bee, for buzz pollination: what do vibration characteristics tell us?**
Patricia Nunes Silva

**11:40-11:55 Impact of Greenhouse Tomato Floral Volatiles on Bumble Bee Pollination**
Les Shipp

## *12:00- 1:00 Bumblebees in Greenhouse Pollination in Mexico – Carlos Vergara*

**12:00-12:20 Evaluation of the efficiency of *Bombus ephippiatus* Say (Hymenoptera, Apidae) as a greenhouse pollinator of tomato (*Lycopersicon esculentum* (Mill.)**

Carlos Vergara

**12:20- 12:40** Antonio Maya, Biobest
**12:40 – 1:00** Ignacio Cuadriello

**1:00-2:00 LUNCH**

## *2:00 – 3:00 Pollinators and Pollination in the City: Gardens, Parks, and the Urban Environment – Marianna Horn*

**2:00-2:15 A comparison of pollinator biodiversity between green spaces, industrial areas and residential land-use zones in urban, southern Ontario, Canada.**
Marianna Horn

**2:15-2:30 Developing habitat and management techniques for bees on utility lands: industry partnerships for pollinator conservation**
Vicki Wojcik

**2:30-2:45 URBANBEES project**
Bernard E. VAISSIÈRE

**2:45-3:00 Stingless bees in archaeological sites in southeastern Mexico**
Chavier de Araujo Freitas

***3:00-3:30 BREAK***

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## *3:30 – 5:45 Issues in Crop Pollination for Modern Agriculture (extended) – Bernard Vaissière and Breno M. Freitas*

**3:30-3:45 Honey bees role in pollination and its impacts on yield of canola**
Hussain ALI

**3:45-4:00 Bee pollination of the sour cherry varierty "Stevnsbaer" (Prunus cerasus)**
Lise HANSTED

**4:00-4:15 Bee pollinators of entomophilous crops in SW Virginia**
Nancy ADAMSON

**4:15-4:30 The abundance and distribution of native bees on New Zealand crops**
Brad Howlett

**4:30- 4:45 Current status of insect pollination in mango**
Shashi Sharma

**4:45-5:00 Potential pollinators: a study of the floral visitors of coriander *Coriandrum sativum* L. (Apiaceae) in Mitidja area (Algeria)**
Leila Bendifallah

**5:00-5:15 Seasonality of the use of Cardamom pollen by the bees of Laguna Lachua National Park Zone of Influence**
Natalia Escobedo Kenefic

**5:15-5:45 Refining the economic valuation of animal pollination in agriculture at a national scale**
Bernard E. VAISSIÈRE

***5:45-7:30 SOCIAL AND SUPPER***

## *7:30-8:30 Organization and Education – Panel Discussion*

Peter Kevan – CANPOLIN, ICPBR, IUBS
Vicki Wojcik – NAPPC and Pollinator Partnership
Ed Spevak - Butterfly Houses, Pollinator Gardens and Bees Hives: The Role of Zoos on Pollinator Public Education, Outreach and Conservation

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## Wednesday June 29, 2011

### *8:30-10:00 Conservation Issues in Pollination – Simon Potts and Rufus Isaacs*

**8:30-8:50 Integrating flowering plants into intensive fruit and vegetable systems for sustainable crop pollination: challenges and opportunities**
Rufus Isaacs

**8:50-9:10** Simon Potts

**9:10-9:30 Species traits and the sensitivity of bees to environmental change**
Neal Williams

**9:30-9:50 Does size matter? Pollinators' efficiency in critically endangered fritillary (*Fritillaria meleagris* L., Liliaceae)**
Marcin Zych

***10:00-10:30 BREAK***

### *10:30-12:00 Assessing Pollination Interactions for Ecosystem Function*

**10:30-10:45 Pollination within the landscape context: what do we know and what should we know?**
Blande Viana

**10:45-11:00 Modeling pollinators across agricultural landscapes**
Neal Williams

**11:00-11:15 A flower-visitation web of Papilionoideae (Leguminosae) from Northwestern Argentina**
Ángela V. Etcheverry

**11:15-11:30 Plants and bees mutualistic networks in three ecosystems in Santa Catarina, southern Brazil**
Cristiane Krug/Isabel Aves dos Santos

**11:30-11:45 Pollination networks along a successional gradient of tropical dry forest**
Martha Lopezaraiza Mikel

**11:45-12:00 Cohort of Hymenoptera pollinators on two endemic large-flowered *Scrophularia* species in W Mediterranean**
Marisa Navarro-Pérez

## *12:00-1:00 Pollination Issues for National & International Trade*

**12:00-12:30 Pollinating Species, Commodity Values, Trade and Policy Considerations**
Vernon Thomas

**12:30-1:00 The potential role of the North American Free Trade Agreement in pollinator protection**
Melanie McCavour

***1:00-2:00 LUNCH***

## *2:00-3:30 Exploring pesticide effects on non-Apis bees – a panel discussion*

**2:00-2:10 Introduction**
**2:10-2:20 Aspects determining risk of pesticides to wild bees: structured assessment for focal crops**
Barbara Gemmill-Herren

**2:20-2:30 Pesticides and Honey Bees: the risk assessment process in the European Union and Pesticide use in crops and pollinators: protection goals and related regulatory tools**
M. Miles and Anne Alix (As presented by B. Gemmill-Herren)

**2:30-2:40 Pesticide Exposure Routes for Bumblebees (Bombus spp.)**
Sheila R. Colla

**2:40-2:50 Pesticide Exposure Routes for 'Sweat Bees' - Halictidae**
Dino J. Martins

**2:50-3:00 Assessment of large bees (Xylocopa and Amegilla species) exposure to systemic pesticides**
Mary Gikungu

**3:00-3:30 Discussion of State of Knowledge on Pesticide Exposure Routes for Wild Bees**

***3:30-4:00 BREAK***

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## *4:00-5:00 Pollination in the forest*

**4:00-4:15 Pollination strategies of Amazonian trees**
Márcia Maués

**4:15-4:30 Why do Australian Acacias offer free food? Pollinators in an ant-Acacia mutualistic system within a longitudinal gradient across Victoria**
Angelica Elizabeth Martinez-Bauer

**4:30-4:45 Seasonality of the use of Cardamom pollen by the bees of Laguna Lachua National Park Zone of Influence**
Natalia Escobedo Kenefic

**4:45-5:00 Birds and bees on flowering trees**
Peter Kevan

## *5:00-6:00 POSTER SESSION*

1. Mohamed Shebl Abd Elfattah - The biodiversity of the genus Andrena and their floral association collected from Kazakhstan and Kyrgyzstan

2. Amanda Pricilla Batista Santos - Reproductive Biology *Portulaca umbraticola* Kunth Portulacaceae) in Petrolina, PE, Brazil

3. Amanda Pricilla Batista Santos - Pollination Ecology Of *Arrojadoa rhodantha* (Gurk) Britton & Rose (Cactaceae) in Petrolina, PE, Brazil

4. Aguilar-García Sandra Aracely and Dulce María Figueroa-Castro - Flower orientation and male reproductive traits in Pachycereus weberi (Cactaceae)

5. Nar B. Ranabhat - Potential bee flora of Central Nepal

6. Natalia Veiga - Large-Scale Fire Effects on Wild Bee Diversity in Northeastern Argentina

7. Eribel Bello Cervantes - Effect of antropogenic perturbation on the community of floral visitors of *Bursera copallifera* (Burseraceae)

8. Isabel Diaz-Forero - Effects of human settlements and green areas at multiple spatial scales on the diversity and abundance of bumblebees

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9. Miriam Gimenes - Pollination of *Ipomoea carnea* subsp. *Fistulosa* (Mart. Ex Choisy) DF Austin (Convolvulaceae) by bees and moths in the disturbed area in the semiarid northeastern region of Brazil

10. Madeleine Chagnon - Is fruit set in cranberry crops limited by plant resource or by pollination?

11. Mary Lucy Oronje - Pollination needs and the role of solitary bees on seed set and quality of Crotalaria brevidens Benth in Kakamega, Western Kenya

12. Gail MacInnis - Modelling long-distance anemophilous pollen dispersal: contamination of seed orchards and non-GE agricultural crops

13. Anna K. Kirk - BLUEPOLL: Modeling honey bee and bumble bee pollination and subsequent crop yields in highbush blueberry (Vaccinium corymbosum)

14. Isabel Alves-dos-Santos – Monitoring the bee fauna in crops: a purpose to evaluate the deficit of pollinating bees in Brazil

15. N.K. Joshi - Policy framework for conserving pollinators in traditional agricultural production systems

16. Carla Essenberg - Explaining variation in pollinator responses to flower density: nonlinear effects and scale-dependence

17. Colin Phifer – Alone but not apart? The pollination ecology of dioecious shrubs in a fragmented forest

18. Marcelo Casimiro Cavalcante – Pollination and pollinators of Brazil Nut (*Bertholletia excelsa*) in a crop of the central rain forest

19. Jitendar Kumar Gupta – Community Learning and Innovation: Wild Pollinators and Pesticides on Apples in Himachal Pradesh, India

20. Harold van der Valk, Irene Koomen, Barbara Gemmill-Herren, Tjeerd Blacquière - Aspects determining risk of pesticides to wild bees: structured assessment for focal crops

21. J. van der Steen, I. Roessink, R. Nocelli, O. Malaspina, M. Kasina, M. Gikungu – Method to determine the acute contact LD50 of pesticides to non-standard social and solitary bees

22. Mace Vaughn - Opportunities for non-Apis bees to inform pollinator risk assessment

23. Sheila R. Colla - Pesticide Exposure Routes for Bumblebees (Bombus spp.)

24. Roberta C. F. Nocelli, Thaisa C. Roat, Andrigo M. Pereira, Stephan M. Carvalho, Elaine C. M. Silva-Zacarin, Osmar Malapsina - Pesticide Exposure Routes for Brazilian stingless bees

25. Dino J. Martins - Pesticide Exposure Routes for 'Sweat Bees' - Halictidae

26. Barbara Gemmill-Herren, Antonio Felicioli - Pesticide Exposure Routes for 'Leaf-cutter Bees – Megachilidae

27. M. Miles - Pesticides and Honey Bees – the risk assessment process in the European Union

28. Anne Alix and Mark Miles - Pesticide use in crops and pollinators: protection goals and related regulatory tools

***6:00-7:30 SOCIAL AND SUPPER***

### *7:30-8:30 ICPBR Business meeting*

See Business meeting agenda

## Thursday June 29, 2011

### *9:00-12:00 Latin American and Canadian Crop Pollination Workshop*

Agenda to follow