

#### Scientific Topics for Environmental Fate and Safety Theme

- Risk Assessment and Risk Mitigation to protect environmental quality and human health
- Pesticide use to control invasive species and to protect endangered species
- Climate change and GMO crop effects on pesticide use and risk scenarios
- Advances in simulation of pesticide fate and transport
- Degradation, transformation, and sorption processes in air, water, soil and biota
- Advances in environmental sampling methods and analysis technologies
- Ecological effects testing for tropical regions
- Risk assessment tools for developing countries
- Advances in pest management technologies – updates and environmental impacts



#### Special Plenary Speakers

The 12th IUPAC ICPC is pleased to also present two additional Plenary Speakers due to sponsorship by CropLife International. These two outstanding speakers are leaders in their scientific fields and we are pleased to have the opportunity to welcome them to Melbourne.

*Professor Christopher J Leaver*, Emeritus Professor of Plant Science, with over 150 scientific papers published in major international journals, Professor Leaver has a commitment to creating a dialogue and informing the public understanding of science.

*Tim Hassinger* is the Commercial Vice President of Dow AgroSciences for the Europe, Latin America, and Pacific regions. Mr Hassinger has been a member of the Dow AgroSciences team for more than 25 years and has demonstrated his commitment to the growth of the business through his various marketing roles which are supported by his study in agricultural economics.

#### For further information:

Web: [www.iupacipc2010.org](http://www.iupacipc2010.org)  
Email: [iupac@asnevents.net.au](mailto:iupac@asnevents.net.au)

#### This event is proudly sponsored by:



## 12th IUPAC International Congress of Pesticide Chemistry In Conjunction with the Royal Australian Chemical Institute's National Convention

## Chemistry for a Sustainable World

[www.iupacipc2010.org](http://www.iupacipc2010.org)

4<sup>th</sup> - 8<sup>th</sup> July 2010

Melbourne Australia

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## Welcome

The 12th IUPAC International Congress of Pesticide Chemistry will be held in Melbourne, Australia from the 4th to the 8th of July 2010. With so much changing in our world today and so many demands to provide for a sustainable future, the theme of the 12th IUPAC ICPC is very relevant.

'Chemistry for a Sustainable World' will focus on new emerging issues for scientists in the field of pest management, explore regulatory requirements, delivery of chemicals for crop protection and public and environmental health.

## Program

The program of the 12th IUPAC ICPC will host an extensive scientific program with world leading plenary speakers and symposia. The program will also be enriched by an extensive poster display and sessions to encourage interaction of the scientific community.

## Scientific Program

### Emerging Issues for Industry

#### Plenary Speaker: *Dr Ganesh Kishore*

Dr Kishore is the former head of biotechnology at two cutting edge industrial research establishments (Monsanto and DuPont) and has led the efforts on development of Roundup Ready technology and commercialisation. Currently Dr Kishore is serving as the CEO of Malaysian Life Sciences Capital Fund, a global VC Fund.

#### Scientific Topics for Emerging Issues and Industry Theme

- Water and agriculture: availability, quality and use efficiency in the face of climate change
- Biofuels: impacts on land use and opportunities for chemical intervention
- Biofactories: plants as sustainable bio-productions systems for valuable proteins and fine chemicals
- Biorationals in concert with agricultural technology
- How will agricultural chemistry interact with the next generation of genetically engineered crops?
- Agricultural technology, risk assessment and the public
- Agricultural technology to provide a sustainable food supply in 2020
- Global agricultural mosaic: biodiversity, endangered habitats and food production
- Life cycle assessment for agrochemicals and intensive agriculture
- Changing paradigms for holistic agricultural chemical and technology regulations
- Urban pest control and off target transport
- Nanotechnology and other novel alternative chemical delivery systems
- Chemistry and more efficient nutrient use

### Pest Management and Crop Protection

#### Plenary Speaker: *Professor Ian Baldwin*

Ian Baldwin is the founding Director of the Max Planck Institute for Chemical Ecology in Jena, Germany. His research interests include understanding how native plants cope with attack from insect herbivores and his group transforms native plants to understand ecological interactions in native environments.

## Scientific Topics for Pest Management and Crop Protection Theme

- Crop protection in the GM crop era
- Chemical ecology and crop protection
- Natural products and biopesticides
- Pesticide mode of action and metabolism
- Natural products
- Resistance management: insect disease vectors and agricultural pests
- Chemical ecology and crop protection
- Receptor targets for insecticide discovery
- Herbicide resistance
- Challenges of crop protection in the 21st century
- Progress in seed treatment



## Formulation and Delivery

#### Plenary Speaker: *Dr Peter Baur*

Peter Baur leads the Bioavailability Optimization Group for Bayer Crop Science in Frankfurt and Monheim. He is also currently Professor at the Leibniz University of Hannover, President of the Symposium Committee of the ISAA 2010 TU Munich, and Vice-Chairman of the ISAA Society, Wageningen.

#### Scientific Topics for Formulation and Delivery Theme

- Formulation product development
- Application technology
- Formulation efficacy and biodelivery
- Sustainable formulations
- Formulation environmental stewardship
- Modelling application and efficacy



## Regulatory and Residue

#### Plenary Speaker: *Emeritus Professor Colin Berry*

Sir Colin is a diagnostic and experimental academic pathologist who has worked on the reactions of the body to sutures, grafts, devices and xenobiotics. He serves on a number of advisory bodies in the fields of science policy.

#### Scientific Topics for Regulatory and Residue Theme

- Progress in global MRL harmonization
- Progress in international guidelines on residues in food
- Progress in risk reduction indicators
- Minor uses
- Progress in human exposure assessment
- REACH legislation in the EU
- Toxicology
- Public health and Safety



## Environmental Fate and Safety

#### Plenary Speaker: *Dr Gero Vagt*

Senior Staff of FAO; since 1998 strengthening the setting of international standards for pesticides and their management (e.g. through JMPR, JMPS and Code of Conduct). Furthermore, actively engaged in regional and international harmonization efforts for the regulation of pesticides and chemicals, enhancing the cooperation between different UN-agencies, in particular WHO, UNEP and FAO.