

**MONDAY 26<sup>th</sup> November 2001**

**8:00AM REGISTRATION**

**9:00 AM OPENING Professor John McKenzie, Dean, Faculty of Science, The University of Melbourne**

**Chair: Peter Ridland**

**9:20 AM Keynote Address:** Management of the diamondback moth: déjà vu all over again?  
**Tony Shelton**

**10:00 AM** Improvement of crucifer IPM in the Changjiang River Valley, China: from research to practice  
**Shu-sheng Liu, Invited Speaker**

**10:30 AM MORNING TEA**

**Chair: Steve McKechnie**

**Population structure of DBM**

**11:00 AM** Variability in *Plutella* and its natural enemies: implications for biological control  
*A.A. Kirk, D. Bordat, G. Mercadier, G. Delvare, A. Pichon and L. Arvanitakis*

**11:20 AM** Same old song, done me wrong; would the real polymorphism stand up please?  
*Robert Butcher, Denis Wright and James Cook*

**11:40 AM** Biological and genetic differences between populations of diamondback moth from different geographic origins  
*A. Pichon, D. Bordat, A. Bordat, L. Arvanitakis and C. Tertois*

**12:00 PM** Estimation of some characteristic dispersal ranges of diamondback moth (*Plutella xylostella*) (Lepidoptera: Plutellidae)  
*Jianhua Mo, Greg Baker, Mike Keller and Rick Roush*

**12:20 PM LUNCH**

**Chair: Ary Hoffmann**

**Bt and transgenic plants**

**1:30 PM** Genetics and molecular biology of diamondback moth resistance to Bt: relevance to detection and management  
**D. G. Heckel, Invited Speaker**

**2:00 PM** Interactions between transgenic plants, the diamondback moth and natural enemies  
*T. H. Schuler, R. P. J. Potting, I. Denholm and G. M. Poppy*

**2:20 PM** Geographic variation in esterase isozymes and distribution of esterase 9b of diamondback moth: with reference to insecticide susceptibility of a Taiwan population  
*William Can-Jen Maa*

**2:40 PM** Current status of abamectin resistance in the diamondback moth, *Plutella xylostella* (L.), in China  
*Li-hua Lü, Xia Feng, Yu-rong He and Huan-yu Chen*

**3:00 PM AFTERNOON TEA**

**Chair: David Heckel**

**Insecticide Resistance**

**3:30 PM** Tolerance to permethrin in diamondback moth populations from vegetable and non-vegetable hosts in southern Australia  
*Nancy M. Endersby, Peter M. Ridland and Jingye Zhang*

**3:50 PM** Diamondback moth resistance to insecticides in Guangdong Province  
*Xia Feng, Huan-yu Chen and Li-hua Lü*

**4:10 PM** [Tony Shelton replacement - confirmed [title to be advised]

**4:30 - 5:15 PM OPEN DISCUSSION Discussion facilitator: Rick Roush**

**6:00 - 7:00 PM POSTER EVENING Wine & Cheese Architecture Atrium**





**WEDNESDAY 28<sup>th</sup> November 2001****Chair: Peter Ridland****Insect-plant interaction**

**9:00 AM** A new theory of host-plant selection by insects - based on the behaviour of pest insects on cruciferous plants

**Stan Finch, Invited Speaker**

**9:30 AM** Trap crops for diamondback moth and other crucifer pests in Guam  
*R. Muniappan, Junard Cruz and Jesse Bamba*

**9:50 AM** Coping with glucosinolates: disarming the mustard oil bomb  
*Heiko Vogel, Jürgen Kroymann, Andreas Ratzka and Thomas Mitchell-Olds*

**10:10 AM** Diamondback moth, *Plutella xylostella* (L.), on peas in Kenya: impact of the host shift on the pest and its parasitoid  
*Bernhard Löhr and Andrea Roszbach*

**10:30 AM MORNING TEA****Chair: Stan Finch****Insect-plant and environmental interactions**

Function of plant volatiles in the host selection by the diamondback moth, *Plutella xylostella* and its parasitoid, *Cotesia plutellae*  
*Jiang Li-Hui and Shu-sheng Liu*

**11:20 AM** Development time of the diamondback moth, *Plutella xylostella* (L.) (Plutellidae) under varied microclimatic conditions: are we measuring the right temperatures?  
*S. Mohandass and M. P. Zalucki*

**11:40 AM** Elevated atmospheric CO<sub>2</sub> may affect the performance of specialist (*Plutella xylostella*) and generalist (*Spodoptera littoralis*) on *Brassica* plants  
*G.V.P. Reddy, A.-M. Manninen and J. K. Holopainen*

**12:00 PM Mike Keller title to be advised****12:20 PM LUNCH****Chair: A. Sivapragasam****Pathogens of DBM**

**1:30 PM** The development of endemic pathogens of *Plutella xylostella* (diamondback moth, DBM) for control of DBM in East Africa  
*David Grzywacz, Mark Parnell, Gilbert Kibata, George Odour, Walter Ogutu, Douglas Miano and Doreen Winstanley*

**1:50 PM** Options of insect pathogens for biological control of diamondback moth (*Plutella xylostella*) with emphasis on the entomopathogenic fungus, *Zoophthora radicans*  
*F.J.L. Stavely, B. Chapman, T. Glare, H. Yeo, J.K. Pell, D.M. Suckling and M. Walter*

**2:10 PM** Proof-of-concept trials for control of DBM by auto-dissemination  
*R.A. Vickers, J.K. Pell, A. White and M.J. Furlong*

**2:30 PM** The prevalence of intracellular microsporidiae and *Wolbachia* infections in *Plutella xylostella* in the Cameron Highlands, Malaysia  
*Robert Butcher, Denis Wright and James Cook*

**2:50 PM** Some studies on *Nosema* infecting DBM in Malaysia  
*A.B. Idris, B-A.H. Zainal Abidin, A.M. Noran, A. S. Sajap and A. K. Hussan*

**3:10 PM AFTERNOON TEA****Chair: Richard Vickers****Pathogens and pest management**

**3:40 PM** Impact of a granulosis virus on larval food consumption and development duration of the diamondback moth, *Plutella xylostella* (L.)  
*Li-hua Lü, Yu-rong He, Xia Feng and Huan-yu Chen*

**4:00 PM** Some results of research on cruciferous insect pests in the North of Vietnam and an IPM approach  
*Le Van Trinh, Vu Thi Su and Nguyen Thi Nguyen*

**4:20 PM** Transmission of entomopathogenic fungi by the diamondback moth  
*Michael J. Furlong and Shi Zuhua*

**4:40 - 5:15 PM IOBC meeting**

**THURSDAY 29<sup>th</sup> November 2001**

**Chair: Thomas Sparks**

**Management of DBM**

**9:00 AM** The present and future status of diamondback moth, *Plutella xylostella* (L.), as a pest of canola in western Canada

*L.M. Dossall, P.G. Mason, O. Olfert, L. Kaminski, and B.A. Keddie*

**9:20 AM** Development of an Integrated Pest Management programme for the control of diamondback moth (DBM) in Tororo district, Uganda

*J. Nabirye, M.W. Ogenga-Latigo, S. Kyamanywa, H. Wilson and E. Adipala*

**9:40 AM** Naturally derived chemistry (Azadirachtin) for the control of crucifer pests in Australia

*G. R. Leeson*

**10:00 AM MORNING TEA**

**Chair: Greg Baker**

**New chemistries**

**10:40 AM** New insect control agents: modes of action and selectivity

*Thomas C. Sparks, Invited Speaker*

**11:20 AM** Spinosad controls a range of lepidopteran pests in crucifers in Australia

*Paul Downard*

**11:40 AM** DBM resistance management in Hawaii

*Ronald Mau*

**12:00 PM** Challenges in implementing spinosad diamondback moth resistance management strategies in intensive vegetable growing areas in Asia

*Samsudin Amit, Gary Thompson and Paul Downard*

**12:20 PM LUNCH**

**Chair: Nancy Schellhorn**

**Adoption of Integrated Pest Management**

**1:30 PM** *Brassica* IPM adoption: progress and constraints in southeast Asia

*A. Sivapragasam, Invited Speaker*

**2:00 PM** Implementation of an IPM programme for vegetable brassicas in New Zealand

*Graham Walker, Peter Cameron and Nadine Berry*

**2:20 PM** Integrating novel technologies for cabbage IPM in the USA: value of on-farm research

*William D. Hutchison, E.C. Burkness and Gary Pahl*

**2:40 PM** Developments in IPM programmes for vegetable brassicas in Fiji, Cook Islands and Papua New Guinea

*Graham Walker, Sada N. Lal, Moti L. Autar, Brian Tairea, Maja Poeschko, Pus Wesis and Guenther Rapp*

**3:00 PM AFTERNOON TEA**

**Chair: Dijana Jevremov**

**Adoption of Integrated Pest Management**

**3:20 PM** Development and implementation of IPM systems in the Lockyer Valley, Queensland Australia

*S. Heisswolf and L. Bilston*

**3:50 PM** A change in attitude – seeing pests from a different perspective

*Kevin Niemeyer*

**4:10 PM** Developing a training and information package for IPM implementation in *Brassica* vegetable crops

*S. Heisswolf, Shu-sheng Liu, G. Norton and S. McGrath*

**4:30 – 5:00 PM OPEN DISCUSSION Discussion facilitator: Tony Shelton**

**Announcement of next Workshop venue**

**5:15 PM CLOSING REMARKS Peter Ridland, Workshop Convener**

