



3rd Australian BEE CONGRESS

27th – 30th June 2018

RACV Royal Pines Resort, Gold Coast, Queensland

www.australianbeecongress.com.au

Pollination & Beekeeping for the Future

Officially endorsed as an Apimondia Pollination Symposium



PROGRAM

(correct at 20 June 2018, subject to change)

Wednesday 27th June

- 8.00am – 5.00pm **Volvo and Steritech Technical Tour**
- 9.30am – 4.00pm **Tropical Fruit World and Native Bee Technical Tour**
- 3.00pm – 7.30pm **Registration Desk Open**
- 3.00pm – 4.00pm **High Tea**
Kalinda Terrace
- 5.30pm – 7.30pm **Welcome Drinks & Meet the Guest Speakers**
Hydrate Bar

PROGRAM - Day 1

Thursday 28th June

8.00am **Registration Desk Opens**

- 8.30am – 10.30am **Kids n Bees**
Royal Poinciana
Sponsored by Beechworth Honey Group

Congress Opening
Prince & Monarch Rooms

- 8.55am **Official Opening**
Hon Mark Furner MP, Minister for Agricultural Industry Development and Fisheries, Queensland Government
- 9.10am **Introduction**
Lindsay Bourke, Chair, Australian Honey Bee Industry Council
- Welcome**
Ben Hooper, Chair of Congress Organising Committee
- 9.25am **Platinum Sponsor Address**
Ben Joyce, Nuplas Pty Ltd

Session 1 *Pollination – Helping beekeepers and growers maximise profits*
Chair: Prof Ben Oldroyd

9.30am **How many bees do we need and how many do we have?**
Prof Ben Oldroyd, Professor of Behavioural Genetics, University of Sydney, Sydney, NSW

10.10am **Maximizing commercial beekeeping profitability in the USA**
David Hackenberg, Hackenberg Apiaries, Lewisburg, USA
Sponsored by Browns Bees Australia Pty Ltd

10.30am **Morning Tea and Trade Exhibition**

Session 2 *Symposium on pollination – How beekeepers provide better pollination services*
Chair: Dr David Pattemore

11.00am **Providing a pollination service of value to growers**
Dr David Pattemore, Science Team Leader – Pollination & Apiculture, Plant and Food Research, Hamilton, New Zealand

11.20am **Positioning a forward-thinking beekeeping business to leverage pollination opportunities**
Danny Le Feuvre, Founder and Managing Director, Australian Bee Services, Adrossan, SA

11.40am **ABC, pollination of almonds, blueberries, and cranberries in the US**
David Mendes, American Beekeeping Organisation, Florida, USA
Sponsored by Sterling Kershaw & Co

12.00pm **Pollination needs into the future - the horticulturalists perspective - a partnership approach for beekeepers and growers**
Stephen Lynch, Director, Horticulture Innovation; Director, Linvest Australia, Sandringham, VIC

12.20pm **Preparing pollination-ready hives and factors for success and profit**
Lindsay Bourke, Beekeeper, TAS

12.40pm **Lunch & Trade Exhibition**

Session 3
Concurrent session

	3A: Managing pesticide use in a pollinator friendly world	3B: Bee breeding and genetics in the era of genomics
<i>Chair</i>	<i>Dr Judy Wu-Smart</i>	<i>Dr Brock Harpur</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
1.40pm – 2.20pm	Sub-lethal cascading effects of neonicotinoid insecticides on queen bees and colony development <i>Dr Judy Wu-Smart, University of Nebraska-Lincoln, Nebraska, USA</i> Sponsored by Australian Rainforest Honey	Bee breeding and genetics in the era of genomics <i>Dr Brock Harpur, Donnelly Centre, University of Toronto, Toronto, Canada</i> Sponsored by Australian Queen Bee Exporters Pty Ltd
2.20pm – 2.40pm	Beekeeper liaison with growers on pesticide selection <i>David Mendes, American Beekeeping Organisation, Florida, USA</i>	Genetic improvement of productivity and health in Honeybees – scope and developments in Australia <i>Dr Robert Banks, Director, Animal Genetics and Breeding Unit (AGBU), University of New England, Armidale, NSW</i>
2.40pm – 3.00pm	Bee gut bacteria is influenced by what they eat and what they work on <i>Dr Julia Jones, Uppsala University, Uppsala, Sweden</i>	Control flight time mating of queen honey bees <i>Joe Horner, Beekeeper, NSW</i>
3.00pm – 3.20pm	Finding the common ground between honey bees and agriculture <i>Matthew Cossey, Chief Executive Officer, CropLife Australia, Barton, ACT</i>	Practical tips for successful queen rearing <i>John Bassett, Kereta Honey Ltd., Thames, New Zealand</i>

3.20pm
Afternoon Tea & Trade Exhibition
Session 4
Concurrent session

	4A: Symposium on pesticide management - the latest risks & how beekeepers can best navigate them	4B: Symposium on bee breeding
<i>Chair</i>	<i>Prof Phil Lester</i>	<i>Prof Madeleine Beekman</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
3.50pm – 4.10pm	How do neonicotinoids affect bees and what is the evidence? <i>Prof Phil Lester, School of Biological Sciences, Victoria University of Wellington, Wellington, New Zealand</i>	Maintaining genetic diversity <i>Dr Susan Cobey, Research Associate, Washington State University; Honey Bee Insemination Service, Washington USA</i> Sponsored by Monsons Honey
4.10pm – 4.30pm	Pesticide residues in brood comb and impacts on colony development <i>Dr Judy Wu-Smart, University of Nebraska-Lincoln, Nebraska, USA</i>	

	<i>Session 4A continued</i>	<i>Session 4B continued</i>
4.30pm – 4.50pm	Pesticides and bee-friendly certification <i>Mike Allsopp, Agricultural Research Council, Stellenbosch, South Africa</i>	40 years of successful isolated bee breeding. <i>John Davies, Chairman, Better Bees, WA</i>
4.50pm – 5.10pm	Minimising pesticide losses <i>Ian Zadow, Beekeeper, SA</i>	Towards breeding resistance to chalkbrood: Selection and development of hygienic honey bee lines in Australia <i>Jody Gerdtz, Bee Scientifics; La Trobe University, Bendigo, VIC</i>

5.10pm -
6.00pm

Young or Expanding Beekeepers: Make Your Mark – Be Part of the Action

Prince Room

Presenters:

Tony Mahar, CEO National Farmers Federation - *The importance of young minds and the growth & leadership journey*

Mark McNamara, NAB Qld Agribusiness Manager – *Financing your Expansion*

Kieren Sunderland – *Finding your sweet spot in growing a profitable beekeeping business*

Pip Crawford and Tim Preusker, CMV Farms – *Growth, diversity and opportunity*

Co-facilitators:

Jodie Goldsworthy & Ben Hooper

6.00pm -
9.00pm

Trade Show Evening Function

Trade Exhibition areas

Sponsored by



PROGRAM - Day 2

Friday 29th June

7.00am -
8.45am

Beekeepers Breakfast: Thinking Outside the Box

Royal Poinciana

Presenters:

Tony Mahar, CEO, National Farmers Federation – *Growing an effective Peak Industry Body – lessons from the NFF*

Simon Williams, University of the Sunshine Coast – *Australian Manuka Honey update*

Facilitators:

Jodie Goldsworthy & Peter McDonald

Sponsored by MyApiary

8.30am

Registration Desk Opens

Session 5

Concurrent Session

	5A: Biosecurity lessons for the future - <i>Apis cerana</i> and <i>Varroa</i>	5B: How can we design agricultural landscapes to maximize pollinator efficacy?
<i>Chair</i>	<i>Dr Ros Gloag</i>	<i>Prof Andrew Lowe</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
9.00am – 9.40am	Biosecurity lessons from honey bee invaders: <i>Apis cerana</i> and their <i>Varroa</i> hitchhikers <i>Dr Ros Gloag, School of Life and Environmental Sciences, University of Sydney, Sydney, NSW</i>	Working with native habitat to improve pollinator services <i>Prof Andrew Lowe, Director of Food Innovation and Professor of Plant Conversation Biology, University of Adelaide, Adelaide, SA</i>
9.40am – 10.00am	The infamous <i>Varroa</i> mite – how does it actually harm the bees and what can be done about it? <i>Prof Madeleine Beekman, Behaviour and Genetics of Social Insects Lab, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW</i>	Big Agriculture in the USA & working in a monoculture environment - lessons for growers & beekeepers <i>David Hackenberg, Hackenberg Apiaries, Lewisburg, USA</i>
10.00am – 10.20am	Dreaded <i>Varroa</i> - the Canadian Management Model & insights for Australia <i>Dr Medhat Nasr, Alberta Provincial Apiculturist, Crop Research and Extension Branch, Ministry of Alberta Agriculture and Forestry, Edmonton, Alberta, Canada</i>	Tailoring revegetation to enhance crop pollination: timing, rewards and crop rotations <i>Dr Katja Hogendoorn, School of Agriculture, Food and Wine, The University of Adelaide, Adelaide, SA</i>

10.20am

Morning Tea and Trade Exhibition

Session 6
Concurrent Session

	6A: Symposium on biosecurity & exotic pest threats for Australia	6B: Symposium on pollination for profit - how this program is positioning Australia's bees for growth in agriculture
<i>Chair</i>	<i>Peter McDonald</i>	<i>Prof Saul Cunningham</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
10.50am – 11.30am	Biosecurity and honey bees in a globalized world – where are we headed? <i>Mike Allsopp, Agricultural Research Council, Stellenbosch, South Africa</i>	What part will crop pollination play in future agriculture? <i>Prof Saul A. Cunningham, Director, Fenner School of Environment and Society, College of Science, The Australian National University, Canberra, ACT</i>
11.30am – 11.50am	Incursions into Australia to date, sentinel hive protections and gaps <i>Trevor Weatherhead AM, Executive Director, Australian Honey Bee Industry Council, Raceview, QLD</i>	The identity and effectiveness of Australian crop pollinators – status and trends <i>Dr Romina Rader, University of New England, Armidale, NSW</i>
11.50am – 12.10pm	Life on the front line of the SQRT team - The role of Australia's beekeeper volunteers in keeping threats at bay <i>Peter McDonald, McDonald Honey, VIC</i>	Marketing revegetation for crop pollinators <i>Dr Katja Hogendoorn, School of Agriculture, Food and Wine, The University of Adelaide, Adelaide, SA</i>
12.10pm – 12.30pm	Asian bee mites, parasitic flies, hunting wasps and other exotic nasties <i>Prof Ben Oldroyd, Professor of Behavioural Genetics, University of Sydney, Sydney, NSW</i>	How many bees in the bush? Estimating social bee densities in crops <i>Dr Tanya Latty, School of Life and Environment Sciences, Sydney Institute of Agriculture, University of Sydney, Sydney, NSW</i>
12.30pm – 12.50pm	What do we have ready to protect our honey bees? <i>Dr John Roberts, Research Scientist, Honeybee Pathogens, CSIRO Health and Biosecurity, Canberra, ACT</i>	Plant pollination networks - DNA barcoding applications <i>Prof Andrew Lowe, Director of Food Innovation and Professor of Plant Conversation Biology, University of Adelaide, Adelaide, SA</i>

12.50pm
Lunch and Trade Exhibition

Session 7 Concurrent Session

	7A: Honey bee nutrition - building fantastic colonies for honey and pollination	7B: Honey bee viruses and how to stop them
<i>Chair</i>	<i>Dr Doug Somerville</i>	<i>Dr Emily Remnant</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
2.00pm – 2.40pm	Fat bees make money <i>Dr Doug Somerville, Department of Primary Industries, NSW</i>	Can we immunise honey bees against virulent viruses? <i>Dr Emily Remnant, Early Career Development Fellow, Behaviour and Genetics of Social Insects Laboratory, University of Sydney, School of Life and Environmental Sciences, Sydney, NSW</i>
2.40pm – 3.00pm	Is supplementary feeding beneficial? <i>Peter McDonald, McDonald Honey, VIC</i>	Is Deformed Wing Virus the last virus standing after the arrival of Varroa? <i>Prof Madeleine Beekman, Behaviour and Genetics of Social Insects Lab, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW</i>

3.00pm Afternoon Tea and Trade Exhibition

Session 8 Concurrent Session

	8A: Symposium on optimising bee nutrition for better pollination with an eye on risk	8B: Symposium on honey bee viruses
<i>Chair</i>	<i>Mike Allsopp</i>	<i>Dr Emily Remnant</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
3.30pm – 3.50pm	Improving pollination outcomes <i>Trevor Monson, Monson's Honey and Pollination, Mildura, VIC</i>	Implications of Australia's unique viral landscape <i>Dr John Roberts, Research Scientist, Honeybee Pathogens, CSIRO Health and Biosecurity, Canberra, ACT</i>
3.50pm – 4.10pm	Strategic planting to maximize bee nutrition and reduce risks of colony losses <i>Dr Linda Newstrom-Lloyd, New Zealand</i>	Pathogen dynamics in NZ bees: viruses, Nosemas and Crithidia <i>Prof Phil Lester, School of Biological Sciences, Victoria University of Wellington, Wellington, New Zealand</i>
4.10pm – 4.30pm	The flip side of feeding bees? What's at stake if bee feeds end up in the food chain? <i>Aron Malcolm, GFSI Global Auditor and Food Safety Consultant, Melbourne, VIC</i>	The wider insect community as a potential reservoir of honey bee viruses <i>Dr Laura Brettell, Hawkesbury Institute for the Environment, Western Sydney University, Sydney, NSW</i>
4.30pm – 4.50pm	Are all bee diets created equal? <i>Dr Medhat Nasr, Alberta Provincial Apiculturist, Crop Research and Extension Branch, Ministry of Alberta Agriculture and Forestry, Edmonton, Alberta, Canada</i>	Deformed wing virus: how do vector transmitted RNA viruses contribute to the death of honey bees <i>Amanda Norton, University of Sydney, Sydney NSW (Presented by Dr. Emily Remnant)</i>

7.00pm – 11.00pm **Congress Dinner**
Tennis Courts
Sponsored by



PROGRAM - Day 3

Saturday 30th June

8.30am **Registration**

Session 9 Concurrent Session

	9A: Global honey trade and its impact on the future of pollination	9B: Breaking the sting barrier: conservation and sustainable use of stingless bees
<i>Chair</i>	<i>Jodie Goldsworthy</i>	<i>Dr Sara Leonhardt</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
9.00am-9.30am	The importance of global honey trade for the sustainability of beekeeping <i>Prof Norberto Garcia, Universidad Nacional Del Sur, Bahia Blanca, Argentina</i>	9.00am – 9.40am Stingless bees for research, education, pets and nature ambassadors <i>Dr Tim Heard, Sugarbag Bees and University of Sydney, Brisbane, QLD</i>
9.30am – 10.40am	Panel Discussion – Opportunities & threats in the global honey market and their relevance to pollination Capilano perspective <i>Dr Ben McKee, Chief Executive Officer, Capilano Honey Limited, Richlands, QLD</i> New Zealand perspective <i>Maureen Conquer, Vice President, Apimondia Oceania, New Zealand</i> American perspective <i>David Hackenberg, Hackenberg Apiaries, Lewisburg, USA</i> New Manuka entrants perspective <i>Paul Callander, ManukaLife, WA</i> Apimondia perspective <i>Jodie Goldsworthy, Director & 4th Generation Australian Beekeeper, Beechworth Honey Group of Companies, Beechworth, VIC</i> Questions	9.40am – 10.00am Resource diversity and bee health <i>Dr Sara Leonhardt, Research Group Leader, Department of Animal Ecology and Tropical Biology, University of Wurzburg, Germany</i>
		10.00am – 10.20am Stingless bee pests and diseases <i>Assoc Prof Robert Spooner Hart, Western Sydney University, Penrith, NSW</i>
		10.20am – 10.40am Propagation techniques including queen transfers and brood grafts <i>Dean Haley, Stingless Beekeeper, Darra, QLD</i>

10.40am Morning Tea and Trade Exhibition

Session 10 Concurrent Session

	10A: Symposium on pollination from the growers perspective	10B: Urban beekeeping in Australia - untapping the resource
<i>Chair</i>	<i>Trevor Weatherhead AM</i>	<i>Bruce White OAM</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
11.10am – 11.30am	Avocado pollination and the contractual relationship with our beekeepers <i>Jacinta Foley, Agronomist, Jasper Farms, Busselton, WA</i>	Co-coordinating amateur beekeeping groups <i>Bruce White OAM, Amateur Beekeeping Association of NSW, NSW</i>
11.30am – 11.50am	Bees and virus transmission – a grower’s perspective <i>Dianne Fullelove, Australian Melon Association, Kenmore, QLD</i>	Rooftop beekeeping <i>Doug Purdie, Owner, The Urban Beehive, Sydney, NSW</i>
11.50am – 12.10pm	What the almond industry expansion means for the beekeeping industry <i>Ross Skinner, CEO, Almond Board of Australia, Loxton, SA</i>	The ins and outs of running a hobby bee club <i>Dr Kathy Knox, President, Gold Coast Amateur Beekeepers Society Inc., Queensland, Gold Coast, QLD</i>
12.10pm – 12.30pm	Pollination challenges of the apple and pear industry <i>Angus Crawford, Technical Manager, Apple and Pear Australia Limited, Melbourne, VIC</i>	Running a field day for hobby beekeepers <i>John Polley, President, Gold Coast Regional Beekeepers, Gold Coast, QLD</i>

12.30pm Lunch and Trade Exhibition

Session 11 Concurrent Session

	11A: What is the optimal size of the beekeeping industry in Australia?	11B: Symposium on the pollination contribution of stingless bees - what are the key impediments to developing a successful industry?
<i>Chair</i>	<i>Bill Winner</i>	<i>Dr Tim Heard</i>
<i>Room</i>	<i>Prince Room</i>	<i>Monarch Room</i>
1.30pm – 2.10pm	Resource Security, the next 100 years <i>Ian Cane, Apiarist, VIC</i>	The pollination contribution of stingless bees to 5 Australian crops <i>Dr Romina Rader, University of New England, Armidale, NSW</i>
2.10pm – 2.30pm	Growth within limits – learning from NZ’s experience of beekeeping <i>Dr David Pattemore, Science Team Leader – Pollination & Apiculture, Plant and Food Research, Hamilton, New Zealand</i>	Fighting swarms and tolerance to crowding in Australian stingless bees <i>Dr Ros Gloag, School of Life and Environmental Sciences, University of Sydney, Sydney, NSW</i>

	<i>Session 11A continued</i>	<i>Session 11B continued</i>
2.30pm – 2.50pm	What are the factors that will determine the ultimate size of the Australian beekeeping industry? <i>James Kershaw, Sterling Kershaw & Co, Gundaroo NSW and Jon Lockwood, Goldfields Honey Pty Ltd, Vittoria, NSW</i>	Protecting stingless bees from insecticides on farms <i>Chris Fuller, Owner and Director, Kin Kin Native Bees, Kin Kin, QLD</i>
2.50pm – 3.10pm	The needs of dependant pollination industries <i>Greg Fraser, Executive Director and CEO, Plant Health Australia, Canberra, ACT</i>	Managing stingless bees for crop pollination, playing to their strengths and weaknesses <i>Dr Tim Heard, Sugarbag Bees and University of Sydney, Brisbane, QLD</i>

3.10pm Afternoon Tea

Session 12 Closing Ceremony

Chair: Ben Hooper

3.30pm – 4.30pm Closing Ceremony

6.00pm – 10.00pm Australian Outback Spectacular Evening

1st Australian Native Bee Conference

The 1st Australian Native Bee Conference commences on Sunday 1st July, at RACV Royal Pines Resort. For further information, please visit

<https://australiannativebeeconference.com.au/>