

# VICNATURE 2050

People helping nature adapt to a new climate



**Friday February 17, 2017:** Arthur Rylah Research Institute (DELWP) at 123 Brown St, Heidelberg VIC. Ground floor conference room – 9am-5pm.

## Symposium 3

# Building “climate future plots”: designing trials to usefully inform management

## The aim

Our aim for this workshop-style symposium is to develop constructive guidelines for establishing ‘climate future plots’ within Victoria.

We are bringing together a diverse range of knowledge across climate change, adaptation, genetics and intervention decision making, as well as practical land management expertise and experience.

The climate future plots will be long-term trials to provide conservation managers

with empirical data and enable informed decisions on when, where (and whether) genetic variants of existing species, or new species, could be introduced to ecosystems affected by a changing climate.

We look forward to an open discussion across a variety of relevant subjects such as seed provenancing, enhancing current restoration efforts and options for ecosystem ‘rescue’.

The information and recommendations from the workshop will be compiled

into a single document available on the VicNature2050 website and through other appropriate avenues of communication.

## VicNature2050 partners

- Bio 21 institute
- University of Melbourne
- La Trobe University
- Greening Australia
- Arthur Rylah Institute/DELWP
- Victorian National Parks Association
- Royal Society of Victoria

## List of attendees

- Dr Adam Miller (Deakin University)
- Prof Andrew Bennett (ARI/ La Trobe University)
- Prof Ary Hoffmann (Bio21 Institute, University of Melbourne)
- Prof Brad Potts (University of Tasmania)
- Christine Connelly (VNPA)
- Dr Craig Nitschke (University of Melbourne)
- A/Prof David Morgan (University of Melbourne)
- Dr David Parkes (DELWP)
- Dr Elisa Raulings (Greening Australia)
- Fern Hames (ARI/DELWP)
- Garry McDonald (Bush Heritage)
- James Todd (DELWP)
- Jim Begley (Goulburn Broken CMA)
- Dr Jim Radford (La Trobe University)
- Jim Whelan (Parks Victoria)
- Kate Brunt (Goulburn Broken CMA)
- Dr Kim Lowe (ARI/DELWP)
- Dr Linda Broadhurst (CSIRO)
- Prof Lynne Selwood (Royal Society of Victoria/University of Melbourne)
- Dr Marie Keatley (Parks Victoria)
- Dr Mark Norman (Parks Victoria)
- Marty Gent (Glenelg Hopkins CMA)
- Dr Michael Dunlop (CSIRO)
- A/Prof Peter Vesk (University of Melbourne)
- Phil Ingamells (VNPA)
- Rebecca Jordan (University of Melbourne)
- Sarah Day (VNPA)
- Prof Stefan Arndt (University of Melbourne)
- Dr Susan Hoebee (La Trobe University)
- Dr Suzanne Prober (CSIRO)

# SYMPOSIUM PROGRAM

## Arthur Rylah Research Institute (DELWP). Friday February 17, 2017

9.00-9.05 **Welcome to ARI**

**Kim Lowe**

9.05-9.10 **Introduction: What we are trying to achieve today**

**Speaker: Ary Hoffmann** (10 min)

9.15 **Scoping the adaptation challenge: what do we need to know to prepare for transformational climate change?** (10 min)

**Mike Dunlop** (Discussion 15 min)

9.40 **The policy framework** (15 min)

**James Todd** (DELWP, discussion 15 min)

10.10 **Vegetation for the future. How can we use genetics to increase species resilience?**

Adaptation and species shifts? What can we achieve through facilitating genetic adaptation? When do we need to consider shifting species? What are the dangers of these strategies likely to be in Victoria? (20 min).

**Craig Nitschke, Adam Miller**

Critical issues – discussion: (20 min)

*Morning tea (10.50-11.15)*

11.15 **How do we assess adaptability?**

Changes in physiology, genetic diversity, recruitment, range and location, species interactions etc possible in Victoria (20 min).

**Stefan Arndt, Suzanne Prober, Susan Hoebee**

Discussion: (20 min)

11.55 **Wilsons Promontory National Park: a case study** (15 min)

**Jim Whelan** (PV)

Discussion: (20 min)

*Lunch (12.30-1.30)*

1.30 **Possible solutions within Victoria**  
(discussion in groups: 20 mins)

Report back from discussion (20 mins)

2.10 **From theory to practice** (20 min)

**Elisa Raulings**

Discussion: (20 min)

*Afternoon tea (2.50-3.20)*

3.20 **How do we make decisions on intervention?** (20 min)

**Peter Vesk, Linda Broadhurst**

Discussion: (20 min)

4.00 **Design for trials that can usefully inform management** (10 min)

**Jim Radford, Brad Potts, Garry McDonald**

Workshop/s: (30 min)

4.40 **Feedback, summing up and where to from here** (20 min)

**Ary Hoffmann**

4.35-4.55 **Where to from here?**

**Facilitator: Prof Ary Hoffman FAA**

5.00 **Finish**



## MORE INFO

Visit [www.VicNature2050.org](http://www.VicNature2050.org), phone the Victorian National Parks Association on (03) 9341 6500 or email [VicNature2050@vnpa.org.au](mailto:VicNature2050@vnpa.org.au)  
Photos: David Paul/Museum Victoria, Phil Ingamells.

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