

Agenda and Program

Applied Evolution Summit, Heron Island, Queensland, January 3 – 8, 2010

Sunday, January 3

Midday Arrive and settle in
16:00 Welcome, introductory remarks, introduction to themes, assignments
17:00-18:00 Welcome reception
18:30-21:00 Dinner served

Monday, January 4 - High tide @ 11:00

07:30-08:30 Breakfast
08:30 Introduction to Charettes
08:45 Introduction to Prospect 1: Darwinian medicine
09:00 Introduction to Prospect 2: Darwinian ecology
09:15 Introduction to Prospect 3: Darwinian agriculture
09:30 Problem assignments, teams convene
10:00 Coffee and tea served
10:15 Teams meet
11:00-15:00 Break for high tide and lunch
15:00 Keynote 1 - Sir Peter Gluckman*
16:05 Keynote 2 - Tom Smith*
17:10 Keynote 3 - Ford Denison*
18:30-21:00 Dinner served
Evening Reserved for interaction, meetings within & among teams

Tuesday, January 5 - High tide @ 12:00

07:30-08:30 Breakfast
08:30 Individual Presentations 1* 3 @ 20 minutes
09:35 Coffee and tea served
10:00 Individual Presentations 2* 2 @ 20 minutes
10:40-15:00 Break for high tide and lunch
15:00 Individual Presentations 3* 6 @ 20 minutes
17:00 Break
18:30-21:00 Dinner served
Evening Reserved for interaction, meetings within & among teams

Wednesday, January 6 - High tide @ 13:00

07:30-08:30 Breakfast
08:30 Individual Presentations 4* 3 @ 20 minutes
09:35 Coffee and tea served
10:00 Individual Presentations 5* 3 @ 20 minutes
11:00-15:00 Break for high tide and lunch
15:00 Individual Presentations 6* 6 @ 20 minutes
17:00 Break
18:30-21:00 Dinner served
Evening Reserved for interaction, meetings within & among teams

Thursday, January 7 - High tide @ 14:00

07:30-08:30 Breakfast
08:30 Health team presentation
09:30 Environment team presentation
10:30 Coffee and tea served *Please see
10:45 Agriculture team presentation the back of
11:45-15:45 Break for high tide and lunch this page for
15:45 Group synthesis and planning talk details
17:00 Break
18:30 Casual farewell dinner

Friday, January 8

07:30-08:30 Breakfast
14:00 Launch from Heron Island to Gladstone (mainland)

Keynote presentation titles

Keynote 1 Applying evolutionary principles to improving human health

Keynote 2 Evolutionary management of ecosystems & biodiversity

Keynote 3 Darwinian Agriculture: past tradeoffs present opportunities

Individual presentations

08:30 Tuesday Convene

08:35	Health	Troy Day	The evolutionary epidemiology of infectious disease
08:55	Health	Margaret Mackinnon	Virulence evolution of malaria parasites
09:15	Health	Allen Rodrigo	Applied evolution and rapidly evolving pathogens
09:35	Break		
10:00	Health	Scott O'Neill	Controlling dengue with microbial symbionts of mosquitoes
10:20	Health	Carl Bergstrom	A public choice framework for controlling transmissible and evolving diseases
10:40	Break		
15:00	Environment	Andy Sih	Evolution, behavior & the ability to cope with human-induced rapid environmental
15:20	Environment	Andrew Hendry	An introduction to eco-evolutionary dynamics
15:40	Environment	Mike Kinnison	Eco-evolutionary conservation biology: beyond diversity for diversity's sake
16:00	Environment	Scott Carroll	Anthropogenic Nature: working with contemporary evolution
16:20	Environment	Rick Lankau	Improving restoration by capitalizing on evolutionary changes in an invasive species
16:40	Environment	Craig Moritz	Evolutionary biogeography in a changing world

08:30 Wednesday Convene

08:35	Environment	George Gilchrist	Hot, dry, and anoxic: A natural selection of climate effects on life
08:55	Environment	Ben Phillips	Evolution and the rate of range-shift in response to climate change
09:15	All	Allen Rodrigo	The US National Evolutionary Synthesis Center: mission & programs
09:35	Break		
10:00	Food	Andy Sheppard	Evidence of rapid evolution from alien plant invasions and biological control
10:20	Food	Mikko Heino	Can harvesting drive rapid evolution, and does it really matter?
10:40	Food	Ary Hoffmann	Two rules about pest and insect evolutionary responses to climate change?
11:00	Break		
15:00	Food	Simon Southerton	Genomics of adaptation to climate in eucalypt populations
15:20	Food	Gary Fitt	Selection of pesticide resistance in ag systems - population management of gene
15:40	Food	Robyn Russell	The evolution of new enzyme function I: lessons from xenobiotic detoxifying bacteria
16:00	Food	John Oakeshott	The evolution of new enzyme function II: lessons from insecticide resistant insects
16:20	Food	Jeremy Burdon	Fungal evolution in response to plant breeding
16:40	Food	Peter Thrall	Coevolutionary interactions in the Linum-Melampsora plant-pathogen system

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