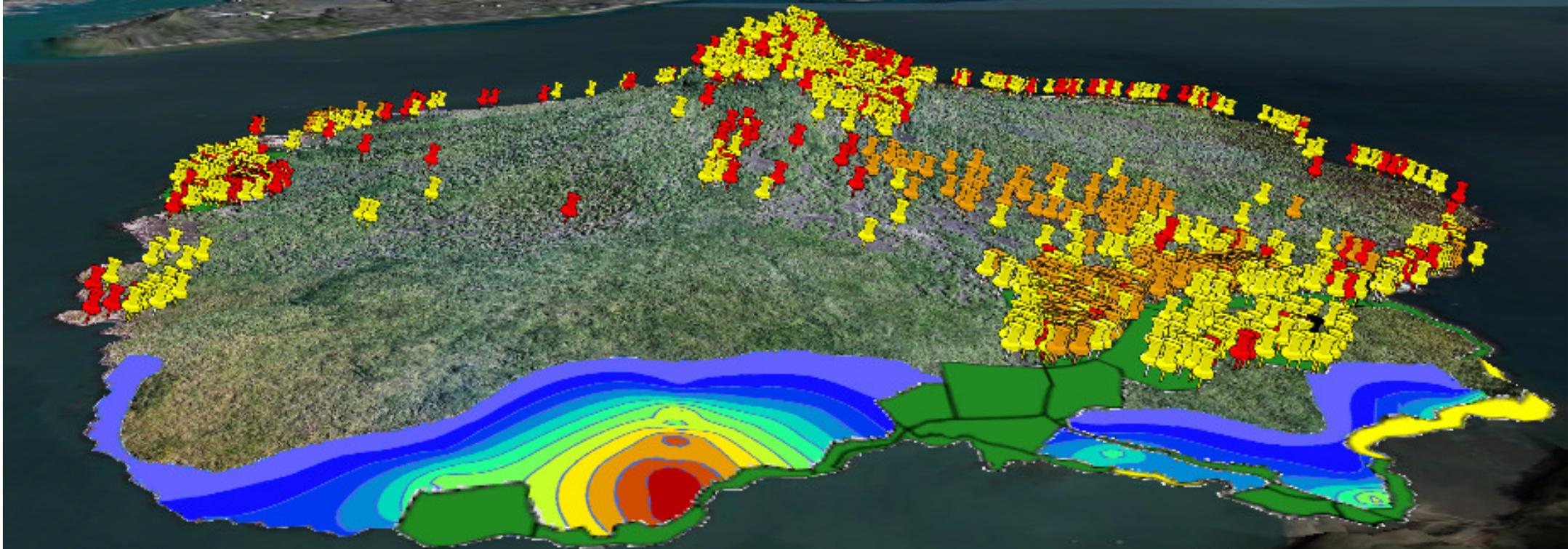


# *THE NORTHERN GATEWAY: TOMORROWS PESTS TODAY*



**New Zealand Biosecurity Institute**  
**6. National Education & Training Seminar 2011**  
**CONFERENCE HANDBOOK**

The New Zealand Biosecurity Institute acknowledges and thanks the sponsors of NETS2011.  
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## PRESIDENT'S WELCOME

I would like to extend a warm welcome to everyone who has joined us for our 61st annual National Education and Training Seminar (NETS) in Auckland, the city of sails. Auckland is a trade and tourist hub whose influence extends far beyond the Bombay's or Warkworth. The city where the majority of visitors greet New Zealand is also the most likely place unwanted organisms will enter.

Tomorrow's pests today?

If early on in this country's history New Zealander's had the foresight to eliminate the future pests of our wonderful land we would be wealthier and our natural identity less modified. Technology is now more advanced and we have a better understanding of what may become a pest, and where from and how that pest will arrive. However numerous risks still remain. But with knowledge, vigilance, and engagement with all New Zealander's there is hope we can turn away today the tide of tomorrow's unwanted pests.

You have a fantastic lineup of presenters from across the biosecurity spectrum who are tackling current issues in biosecurity. I would like to welcome and thank all speakers and participants who have crafted and refined their talks for the delegates. I also offer a special welcome to Mr Tim Low from the Invasive Species Council of Australia.

Thank you to the dedicated organising committee who has committed time and energy to deliver to the Institute NETS2011. Organising requires numerous decisions and many phone calls, letters, plans and meetings. It is not an easy task and the team as lead and Chaired by Dave Moverley has done a fantastic job. Thank you to our Conference Organiser; Linda McKay (No. 9 Productions); and the Committee of, Holly Cox, Jack Craw, Mel Galbraith, Dave Galloway, Greg Hoskins, Rebecca Kemp, Tony McCluggage, Monica Singe and Margaret Stanley

On behalf of the NZBI I would like to sincerely thank all of our sponsors whose support allows us to produce these great events for modest fees. Our sponsors are: Gold -MAF, Auckland Council, and Te Ngahere; Silver - Waikato Regional Council, Lincoln University, Landcare Research, Niwa and Kiwicare; Bronze - University of Auckland, Weedbusters, and Animal Control Products; Trade - Assure Quality and Key Industries.

So I encourage you to make the most of what this NETS offers you. Glean information and understanding from the presentations, workshops and posters to make what you do more successful. Engage with others, form friendships and share your stories so others can learn. And remember - Great things happen at NETS!

Craig Davey  
**President**

## GENERAL INFORMATION

### **Registration and Information Desk**

Open from 8.00am (7.45am on the 6<sup>th</sup>) till 5pm 6-8 July 2011.

### **Parking**

Killarney Street Car Park (adjacent to Bruce Mason Centre)

1<sup>st</sup> Hour free, \$1.00 for each hour thereafter.

Earlybird Parking - \$6.00 for the day. Prepay before 10am.

### **Meeting Rooms**

All plenary sessions will take place in the auditorium and breakout sessions in the conference centre on level 1 (see map).

### **Presenters Information**

Please make yourselves known to the in-house technician who can assist with presentations and microphone set up. A data projector and laptop will be available in the presenting room – please see the programme and ensure you are familiar with the time of your presentation.

### **Catering**

Morning tea will be provided on Wednesday, Thursday and Friday. Afternoon tea and lunch provided on Wednesday and Friday. All catering is served in the main foyer. For those delegates taking part in the site visits on Thursday, a packed lunch will be provided – all other delegates are free to make their own arrangements for the afternoon.

### **Mix n Mingle Function (optional extra \$30)**

Tickets for this function should be booked in advance – if you have not already booked and would like to attend, please see staff at the registration desk before morning tea on Wednesday to purchase a ticket. Take place in the main foyer from 6.30pm – 7.30pm Wednesday 6<sup>th</sup> July.

### **Conference Dinner and Entertainment**

All full registered participants are invited to this fun, networking occasion taking place in the auditorium on Thursday 7<sup>th</sup> July at 7.30pm. Pre-dinner drinks served in the main foyer from 7pm. Should you require extra tickets for this function please see staff at the registration desk BEFORE morning tea on Wednesday cost is \$95. Enjoy a sumptuous banquet meal, a good entertaining laugh, music and dancing.

### **Health and Safety and Personal Information**

The Bruce Mason Centre meets strict health and safety regulations. There is no smoking permitted within the building although you may smoke outside the main entrances on the ground floor. The Bruce Mason Centre nor NETS 2011 will accept any liability for loss, theft of personal items or any injury to persons attending the conference. Please keep your valuables with you at all times.

### **Exhibition and Sponsorship**

We extend a very special thanks to all the sponsors and exhibitors who have supported NETS 2011. Please take the time to visit our vendors during the refreshment breaks.

### **Airport Transfers**

The staff at the registration desk will be happy to take bookings for a shared (user pays) shuttle service to the airport at the end of the Conference on Friday. It is essential that you advise staff to add your name to the list of passengers to be collected from the conference venue at the end of Friday's programme.

### **No Smoking**

Smoking is not permitted in the conference venue; however you can smoke outside the main entrance and side doors to the car park.

### **Transport**

North Shore Taxis	Phone. 09 486 1799
Avis Rent-A-Car	Phone. 09 443 1501
Hertz Rental Cars	Phone. 488 0920
North Harbour Coaches	Phone. 09 480 1377
Maxx (Buses)	<a href="http://www.maxx.co.nz/">http://www.maxx.co.nz/</a> Phone. 366 6400
Fullers Ferries	<a href="http://www.fullers.co.nz/">http://www.fullers.co.nz/</a>

### **Eating Out**

These helpful links supply you with information on restaurants and cafes within the conference venue area.

<http://www.aucklandrestaurants.net/takapuna/>

<http://www.menus.co.nz/cafes/takapuna/view-map/>

*See your conference pack for discount vouchers for local eateries.*

### **Shopping**

Takapuna offers a huge variety of shops and also a Westfield Mall situated on the corner of Anzac and Como Streets. The main shopping street of Hurstmere Road takes approx 10 minutes to walk down and also offers major banking facilities, post office, specialty gifts, kitchenware, men and women's fashion, footwear, convenience store, stationers, bakery etc .

## **NZ BIOSECURITY ANNUAL GENERAL MEETING**

Will take place in the auditorium at 5.35pm on Wednesday 6<sup>th</sup> July, all current members are requested to attend.

### **ABOUT THE NZ BIOSECURITY INSTITUTE**

Membership of the New Zealand Biosecurity Institute is open to anyone with an interest in the Biosecurity field.

Annual membership fees are \$30 if paid by the 31<sup>st</sup> of March each year; thereafter a fee of \$40 per year is charged.

By joining, you will receive discounted fees for the annual National Education and Training Seminar (NETS), and receive the NZBI quarterly Protect publication. You will also have access to the Members area of the website including the members' forum, useful documents, NETS abstracts and back issues of the Protect magazine.

New members attending NETS are provided with a 'buddy' to help get to know the NZBI and its members. We want to make you feel at home and quickly and easily connect with people who have the same fields of interest. We invite you to become member visit our site

<http://www.biosecurity.org.nz/>

## 2011 NZBI ANNUAL AWARDS

### PETER INGRAM AWARD

The Peter Ingram Award is given to a member of the NZBI who has successfully undertaken or enabled others to achieve, relevant to pest plant education, control or management.

Peter Ingram was the pest plant coordinator at Environment Bay of Plenty when he died in August, 2001, not long before his 61<sup>st</sup> birthday.

Peter Ingram had a passion for learning, shared his knowledge and discussed ideas and theories. He was especially encouraging of his team at Environment Bay of Plenty to further their education, apply for study awards and take advantage of learning opportunities. Peter was a past president of the Institute of Noxious Plants Officers.



His colleagues at Environment Bay of Plenty provided the Peter Ingram Award in 2003.

#### Past recipients of the Peter Ingram Award

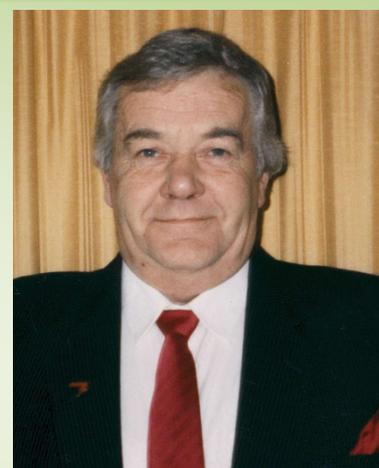
Year	Recipient
2004 Rotorua	Margaret Stanley
2005 Christchurch	Wendy Mead
2006 Pahia	John Sullivan
2007 Wellington	Paul Champion
2008 Hamilton	Carolyn Lewis & Lynley Hayes
2009 Queenstown	David Moverley
2010 Blenheim	John Mather

### PETER NELSON MEMORIAL TROPHY

The Peter Nelson Memorial Trophy is awarded annually to individuals or organisations, for achievement in Vertebrate Pest Management within New Zealand.

Peter Nelson made a huge contribution to establishing professionalism within the field of vertebrate pest management in New Zealand. His involvement began in 1967 by taking a leadership role in the rabbit destruction industry. Peter's many talents lead him to being appointed as the first Field Advisor of the Agricultural Pest Destruction Council.

In a career spanning several decades, he championed training, encouraged inter-agency co-operation, developed a successful pest control product business, and took an avid interest in the politics and culture of vertebrate pest management.



The award was created by the Vertebrate Pest Management Institute of New Zealand (VPMINZ) in 2005.

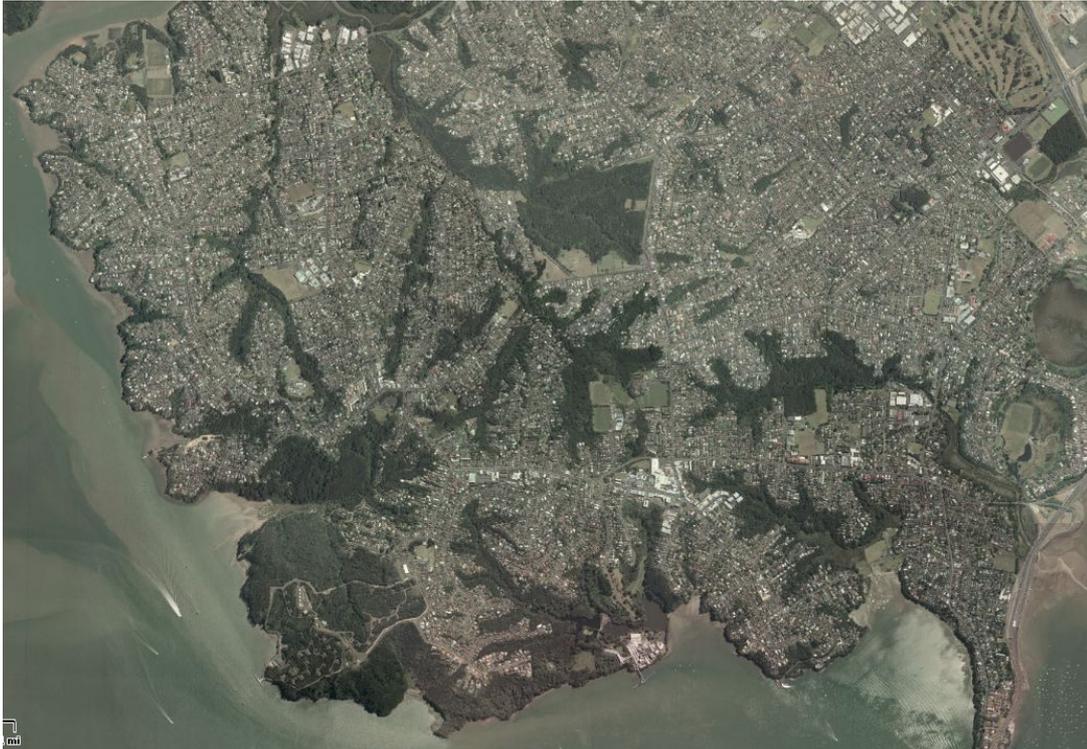
#### Past recipients of the Peter Nelson Award

Year	Recipient
2007 Wellington	Diederick Meenken
2008 Hamilton	Bruce Warburton
2009 Queenstown	Ray Clarey
2010 Blenheim	Bill Simmons

### URBAN RESTORATION

The Northcote / Birkenhead area of the North Shore is splintered with forest remnants that dissect a large urban population. High propagule pressure from a rich introduction of garden ornamental plants has placed extraordinary pressure on these remnants that are vital to the continued ecosystem services that they provide. This field trip will involve walking through several of these reserves and looking at the progression of forest restoration that has taken place over the past three years. We will finish off with an overview of the potential that this area provides in terms of connectivity and conservation at a landscape level including the Uruamo Headland initiative.

Comfortable footwear is recommended and wet weather gear may also be required depending on the forecast.



### RANGITOTO

Rangitoto is one of the defining images of Auckland. It is also the focus of a large and exciting restoration programme, alongside its less prominent but just as interesting neighbour, Motutapu Island. The Department of Conservation has nearly completed the eradication of nine mammalian pest species from the two islands - ten species if you count the otter that was caught there a few years ago! A large and complex weed control project continues to require large inputs from both DOC and volunteers. Both islands have an intriguing history, from the complete Maori archaeological landscape of Motutapu, through the military defensive features and on to the ongoing story of the bach community on Rangitoto. They both also have very exciting futures, with some species of birds already naturally returning to the islands after the pests have been removed and an ever-increasing area of planted forest on Motutapu to complement the forest remnants.

There will be several options for people attending this field trip. Some may choose to take a guided walk from the coast of Rangitoto to the summit, and others may wish to be shown around the area where the two islands meet. Guides will talk about a range of biosecurity issues as well as some of the history of the islands.

We recommend that you pack for rough terrain with sturdy footwear; wet weather gear may also be required depending on the forecast. The island can be exposed to changing weather in a short period of time; a hat and camera are also recommended. A packed lunch and water bottle will be provided. Transport is by bus to the ferry terminal and then ferry to the island, please ensure that you have seasickness tablets should you require them. Should weather be extreme and the ferry company choose to cancel the sailing an alternative venue at the Department of Conservation Area Office North Head.

## **KAURI DIEBACK**

### *Cascade Kauri Park, Waitakere Ranges Regional Park*

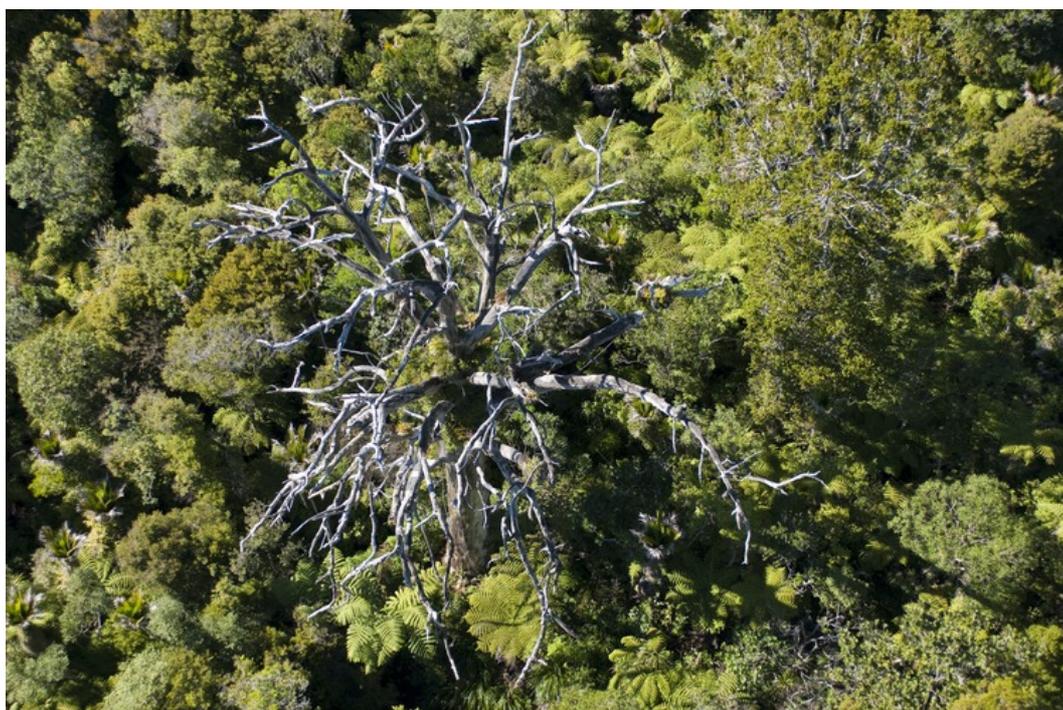
Cascade Kauri Park is located in the northern part of the Waitakere Ranges Regional Park and offer great places to explore. The area contains one of the last stands of original un-milled kauri forest in the region, thus visitors get to view excellent examples of large mature kauri, many between 500 and 1000 years old surrounding the Waitakere stream. Adjacent to this are pleasant and expansive picnic areas and a golf course. You will walk the Auckland City loop which is part of Montana Heritage Trail - an 8km track that provides access to the kauri rainforest containing waterfalls, forest views and historic carved pou by the local iwi 'Te Kawerau a Maki'

Guides will talk about a range of biosecurity issues including the management of kauri dieback, view the symptoms of the disease, weed invasion by African club-moss, ARK in the PARK, as well as some of the cultural history and natural ecology of the area.

### *Ark in the Park*

The Waitakere Branch of the Royal Forest and Bird Protection Society in partnership with the Auckland Council is working to create an Open Sanctuary in the Cascade Kauri Park, Waitakere Ranges - to restore the natural glory of this important forest area by controlling predators and reintroducing species of birds, plants insects etc that once thrived there. Since January 2003 the community volunteer based project has achieved over 1000 hectares of predator controlled parkland, Whitehead were returned to the area in August 2004, North Island robin in 2005 hihi (stitchbird) in 2008 and kokako in 2010.

The Auckland City Walk loop is an easy terrain walking track complemented with boardwalks through the Cascades Kauri rain forest. We recommend that you pack warm clothing and sturdy footwear, wet weather gear may also be required depending on the forecast. A packed lunch and water bottle will be provided. Transport is by bus to the Cascades and return. Should the day bring extreme wet weather, a scenic bus tour through the Waitakere Ranges and its wild coastline will be provided with a stop at the spectacular Arataki Visitors Centre.



Alastair Jamieson/Wild Earth Media

## PROGRAMME AT A GLANCE *(Rooms in italics)*

Wednesday 6 <sup>th</sup> July					Thursday 7 <sup>th</sup> July				Friday 8 <sup>th</sup> July									
0745	<i>REGISTRATION</i>				0745	<i>REGISTRATION</i>				0745	<i>REGISTRATION</i>							
0845	Powhiri and Welcome Official opening				0900	<b>Submitted Papers</b>				0910	<b>Submitted Papers</b>							
0915	<b>Opening Plenary</b> <i>Auditorium</i>					<b>C7</b> Technology <i>Auditorium</i>	<b>C8</b> Pest control <i>Conf 1-2</i>	<b>C9</b> Solutions <i>IT Smart</i>			<b>C13</b> Borders <i>Conf 1-2</i>	<b>C14</b> Aquatic <i>Conf 3</i>	<b>C15</b> Long-term management <i>Auditorium</i>					
1015	<i>MORNING TEA</i>				1020	<i>MORNING TEA</i>				1010	<i>MORNING TEA</i>							
1045	<b>Opening Plenary</b> <i>Auditorium</i> <b>(continued)</b>				1050	<b>Submitted Papers</b>				1040	<b>Submitted Papers</b>							
1215	<i>LUNCH</i>					<b>C10</b> Moving forward <i>IT Smart</i>	<b>C11</b> Biosecurity science <i>Auditorium</i>	<b>C12</b> Lessons learnt <i>Conf 1-2</i>			<b>C16</b> Monitoring/ Auditing <i>Auditorium</i>	<b>C17</b> Other tools <i>Conf 3</i>	<b>C18</b> Problem solving <i>Conf 1-2</i>					
1315	<b>Biosecurity Gems</b> <i>Auditorium</i> 7x two minute talks				1200 - 1700	<b>FIELD TRIPS</b> x 4 (lunch included)				1140	<i>LUNCH</i>							
1335	<b>New Threats- ID Workshops</b>									Plants <i>Bar foyer</i>	Marine <i>IT Smart</i>	Insects <i>Foyer</i>	Vertebrates <i>IT Smart</i>	1240 – 1420	<b>Closing Plenary</b> <i>Auditorium</i>			
1450	<b>Field Trip Related papers</b>				<b>C1</b> Urban restoration <i>Conf 1-2</i>		<b>C2</b> Rangitoto <i>Auditorium</i>	<b>C3</b> Kauri dieback <i>Conf 3</i>										
1510	<i>AFTERNOON TEA</i>				1830	Pre Dinner Drinks <i>Foyer</i>												
1540	<b>Submitted Papers</b>				1900	Conference Dinner <i>Auditorium</i>												
	<b>C4</b> Invasive spread <i>Conf 1-2</i>		<b>C5</b> Invasion potential <i>Auditorium</i>		<b>C6</b> Impact <i>Conf 3</i>													
1720	<b>Poster Presentations</b> <i>Foyer</i>																	
1735	<b>NZBI AGM</b> <i>Auditorium</i>																	
1830	<b>"Mix n Mingle"</b> <i>Upstairs foyer</i>																	

## Day 1 Wednesday 6<sup>th</sup> July

- 7:45- 8:45 Registration in the BMC foyer
- 8:45-8:55 Welcome from local iwi representative(s)
- 8.55-9.00 General Housekeeping
- 9:00-9:05 NZ Biosecurity Institute President's welcome
- 9:05-9:15 Conference opening: Hon. David Carter (Minister for Biosecurity)

### 9:15-10:15 OPENING PLENARY SESSION (P1)

*Chair: Jack Crow*

*Sponsored by:*



- 9:15- 9:45 Tim Low (Invasive Species Council of Australia)  
Climate Change and Invasive Species
- 9:45-10:15 Nick Waipara (Auckland Council)  
The Northern Gateway: Tomorrow's Pests Today.

### 10:15-10:45 Refreshment Break

*Sponsored by:*



**Landcare Research**  
Manaaki Whenua

### 10:45-12:15 PLENARY SESSION (P2)

*Chair: Pedro Jensen*

*Sponsored by:*



- 10:45-11:15 Barbara Hayden (NIWA):  
Marine Gateways – how are we protecting NZ from invasions?
- 11:15-11:45 Hori Parata & Waitangi Wood (Tangata Whenua Roopu):  
Iwi and biosecurity: the Kauri dieback case study.
- 11:45-12:15 Wendy Billingsley (MAFBNZ):  
Measuring biosecurity behaviour change.

### 12:15- 1:15 Lunch

*Sponsored by:*



**Lincoln University**  
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CHRISTCHURCH • NEW ZEALAND

New Zealand's specialist land-based university

1:15-1:35

**Biosecurity Gems “Tasty snack-sized insights”**

**Chair: Hugh Gourlay (Main Auditorium)**



Biosecurity implications of increased irrigation in Canterbury. *P Champion*

One of the USA's worst weeds found in NZ maize crop. *T James*

Feratox for Bennett's wallabies. *S Hix*

Online Toolkit for Managing Argentine ants. *Darren Ward*

Collaboration for biosecurity research *Jack Crow*

Biosecurity for voyaging canoes. *Bill Nagle*

Coming soon to a bookstore near you! The new 'Weed Control Handbook: How to Identify and Manage Invasive Plants in New Zealand'. *Carolyn Lewis*

**1:35 – 2:45 NEW THREATS – IDENTIFICATION WORKSHOPS**

*“A round-robin taxonomic extravaganza!”*

Located at four stations on the upper level

<b>Plants</b>	<b>Marine</b>	<b>Insects</b>	<b>Reptiles, Birds and Fish</b>
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**2:50-3:10 Field Trip Related Papers**

**URBAN RESTORATION (C1)**

**Chair: Brad Myer**

*The forest restoration framework: measurable success of site restoration across urban landscapes.*

D Moverley

**RANGITOTO (C2)**

**Chair: David Brittain**

*Rangitoto and Motutapu pest eradication: a challenge met.*

F Buchanan

**KAURI DIEBACK (C3)**

**Chair: Alison Davis**

*Impact, surveillance and disease management of kauri dieback in the Waitakere Ranges.*

S Hill

**3:10-3:40 Refreshment Break**

*Sponsored by:*



**Landcare Research  
Manaaki Whenua**

## 3:40-5:20 Invasions

Sponsored by:



	<b>INVASIVE SPREAD (C4)</b> <i>Chair: Kate McAlpine</i>	<b>INVASION POTENTIAL (C5)</b> <i>Chair: Richard Toft</i>	<b>IMPACT (C6)</b> <i>Chair: Donna Watchman</i>
3:40-4:00	<i>Explaining lag phase: what causes it?</i> M. Stanley	<i>Enemies in our midst? – assessing weed potential of plants in the aquarium trade.</i> D. Hofstra	<i>Comparison of rodent diet in human modified and native forest habitats using stomach content and stable isotope techniques.</i> J. Peace
4:00-4:20	<i>Stoat reinvasion.</i> A. Veale	<i>Weed risk analysis and weed management decision-making: Chilean needle grass in Canterbury as an example.</i> G. Bourdot	<i>Non-target impacts from pathogen biological control agents: any surprises?</i> J. Barton
4:20-4:40	<i>The ease of spread of bat-wing passionflower in the north.</i> A. Baldwin	<i>The Indian house crow: a threat to NZ?</i> D. Fraser	<i>Biodiversity impacts of pigs in a temperate rainforest ecosystem.</i> C. Krull
4:40-5:00	<i>Modelling invasive species spread using an integrated graph theory methodology.</i> T. Etherington	<i>Potential distribution and invasiveness of three recently naturalised exotic plants under a climate change scenario.</i> C. Sheppard	<i>Nesting ecology of the eastern rosella.</i> J. Galbraith
5:00-5:20	<i>Experiences with aquatic weed control in a tidal river environment</i> M. White	<i>The reproductive biology and larval morphology of the invasive ascidian, Styela clava in Auckland.</i> N. Wong	<i>Native plant successions associated with wilding conifer control.</i> T. Paul

5:20-5:35 **Poster Presentations ( BMC foyer)**

*Chair: Paul Champion*

*Sponsored by:*



1	<i>Ragwort flea beetle. G Hoskins</i>
2	<i>Living mulch, the use of rye/clover as an effective suppressor of weeds and annuals within revegetation planting, to promote plant survival and growth. G Daniels, K Floyd</i>
3	<i>Modelling the potential distribution of an invasive species in NZ: the yellow crazy ant. R Gilchrist, et al</i>
4	<i>Modelling the invasive risk potential posed by the Northern Pacific seastar in NZ. J Blake et al</i>
5	<i>Potential impact and distribution of the common house gecko in NZ. C Slingsby-Jones, et al</i>
6	<i>Modelling of the potential distribution of an invasive species in NZ: the rosy wolf snail. J Martin et al</i>
7	<i>The invasive potential of Moreton Bay fig (Ficus macrophylla) in New Zealand. Y.H. Kim et al</i>
8	<i>The Auckland City Biosecurity Secure Containment Facility. M. White</i>
9	<i>Rainbow skink: impacts, threats, biology, control (AC Biosecurity summer students)</i>
10	<i>Working with Unwanted Organisms under Section 52 and 53 of the Biosecurity Act. J. Brunton</i>
11	<i>Footwear as a biosecurity threat: Defining the hazards and possible solutions. M. Mcneill et al.</i>

5:35

**NZ Biosecurity Institute Annual General Meeting (Auditorium)**

*"Please show your support for the institute"*

6:30 **"Mix n Mingle" Function (upstairs foyer)**

9:00-10:20 Technology, Operations and Solutions



Sponsored By:

	<b>TECHNIQUES/TECHNOLOGY(C7)</b> <b>Chair: Mark Geaney</b>	<b>PEST CONTROL OPERATIONS (C8)</b> <b>Chair: Dave Moverley</b>	<b>SOLUTIONS (C9)</b> <b>Chair: Kerry Bodmin</b>
9:00- 9:20	<i>Progress on registration of new toxins and baits.</i> C. Eason	<i>The safe, responsible and effective use of agrichemicals: what training is required to meet national and regional legislative requirements?</i> P. Guy	<i>Collaborative marine pest management on a roll.</i> L. Hunt
9:20-9:40	<i>Sodium nitrite for discrete pig control.</i> S.Hix	<i>Challenges with biosecurity management in riverbeds</i> M. Girvan	<i>“The toolbox” – improving access to biosecurity tools and support for best practice under the Pest Management national Plan of Action.</i> K. Littin
9:40-10:00	<i>Screening new aquatic herbicides.</i> P. Champion	<i>Dama wallabies: “Yesterday’s pest tomorrow”. After nearly 100 years, are we any closer to stopping the spread of dama wallabies within the Bay of Plenty?</i> D. Williams	<i>NZ building one team capable of dealing with any biosecurity emergency.</i> R. Galloway
10:00-10:20	<i>Integrating ecology and technology to create innovative pest control and monitoring techniques.</i> H. Blackie	<i>A rabbit’s trail – 50 years on the run: a personal experience of pest animal management.</i> R. Clarey	<i>Biosecurity in the floriculture industry: the use of herbicide dipping as a devitalisation method for imported cur roses and horsetails.</i> D. Blanchon

10:20-10:50

Refreshment Break

10:50-11:50 Moving Forward, Biosecurity Science and Lessons Learnt

Sponsored By:



**MOVING FORWARD (C10)**  
*Chair: Dianne Fraser*

**BIOSECURITY SCIENCE (C11)**  
*Chair: Wendy Mead*

**LESSONS LEARNT (C12)**  
*Chair: Don Mckenzie*

10:50-11:10

*What we seek we shall find: ubiquity, microorganisms and NZ regulatory environment.*  
G. Ridley

*Non-indigenous species biofouling on recreational vessels on swing moorings and in berths in the Auckland region.*  
O. Brine

*Penny wise yet pound-foolish: lessons to be learnt from eradication and control work in NZ and internationally.*  
G. Browne

11:10-11:30

*Stream based monitoring for Phytophthora species in the Waitakere Ranges, Auckland*  
S. Randall et al

*Changes in possum movement following a control operation: implications for conservation and bovine tuberculosis management.*  
B. Whyte

*Control of invasive alien plants in the Black River Gorges National Park: the Mauritian experience and expertise.*  
P. Ragen

11:30-11:50

*Biosecurity as an undergraduate pathway.*  
M. Galbraith et al

*Proving TB freedom: some case studies.*  
G. Nugent

*Wilding conifer management .... time to take a look at the big picture.*  
S. Smith

12:00 – 5:00

## Field Trips

*Sponsored by:*



**Te Ngahere**  
Native Forest Management

Ecological Restoration • Environmental Structures



**Rangitoto animal pest eradication**

*Facilitator: Phil Brown*

**Cascades (Kauri dieback)**

*Facilitator: Stacey Hill*

**Urban Forest Restoration**

*Facilitators:*

*Dave Moverley/Mel Galbraith*

**Clay bird shooting**

*Facilitator: Andrew Stein*

**Packed Lunch**

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**6:30**

**Pre-Dinner Drinks in the downstairs foyer  
BRUCE MASON CENTRE**

**7:00**

**Dinner, Awards and Entertainment in the auditorium  
BRUCE MASON CENTRE**

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New Zealand  
**Biosecurity** Institute

**Auckland Northland Branch**

## Day 3 Friday 8th JULY

<b>9:10 BIOSECURITY SUCCESS STORIES</b>			
	<b>Borders (C13)</b> <i>Chair: Lindsay Vaughan</i>	<b>Aquatic (C14)</b> <i>Chair: Dan Blanchon</i>	<b>Long-term Management (C15)</b> <i>Chair: David Havell</i>
9:10- 9:30	<i>Borders within borders – Chatham islands biosecurity and quarantine.</i> P. Bradbury	<i>Hornwort eradication and restoration of Lake Otamateaoroa.</i> R. Wells	<i>Pest control and some of its consequences at the La Trobe Mainland Island.</i> P. King
9:30-9:50	<i>Keeping Auckland's Pest Free islands pest free.</i> S. Jack	<i>Providing native alternatives for the aquarium trade.</i> K. Bodmin	<i>The first biocontrol agent for tradescantia is released at last.</i> L. Smith
9:50-10:10	<i>Joint-agency response to Undaria pinnatifida in the Fiordland marine area.</i> J. Brunton	<i>Lake Wainamu pest fish programme</i> G. Surrey	<i>Feral goat control in the Auckland Region: What we have learnt from the last 50 years.</i> M. Mitchell

### 10:10 – 10:40 Refreshment Break



<b>10:40 INNOVATIONS</b>			
	<b>Monitoring / Auditing (C16)</b> <i>Chair: Cheryl Krull</i>	<b>Other Tools (C17)</b> <i>Chair: Mel Galbraith</i>	<b>Problem Solving (C18)</b> <i>Chair: Tony McCluggage</i>
10:40- 11:00	<i>BIOMAP field data and reporting application</i> J. Boow	<i>Resource kit for rodent and cat eradication.</i> S. Boudjelas et al	<i>Weed surveillance around Pukeiti Rhododendron Trust gardens.</i> G. La Cock
11:00-11:20	<i>Regional Biodiversity and Biosecurity Monitoring</i> M. Baber	<i>Fertility control vaccines for brushtail possums: progress, challenges and prospects.</i> J. Duckworth et al.	<i>How pest managers can work together for collective, effective pest management when the Crown is bound to good neighbour rules in Regional Pest Management Strategies.</i>
11:20-11:40	<i>Cheap as Chips: Control based monitoring of outcomes.</i> D. Moverley	<i>Spring baiting provides good control of Argentine ant.</i> R Toft	<i>K. Briden, A. Thompson</i>

11:40 - 12:40

Lunch

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12:40 - 2:10

**CLOSING PLENARY SESSION (P3)**

**Where does NZ biosecurity go from here?**

***Chair: Mark Mitchell***

12:40-1:10

John Innes (Landcare Research):

**Sanctuaries: Driving biodiversity restoration or “small expensive zoo”?**

1:10-1:40

Andrea Byrom (Landcare Research):

**Scaling up pest control: from small community-led blocks to landscape scales.**

1:40-2:10

Mick Clout & Margaret Stanley (CBB, Univ. of Auckland):

**NZ Biosecurity: Achievements and Challenges.**

2:10

**CLOSING ADDRESS**