



New Zealand Plant Protection Society (Inc)



Brown Marmorated Stink Bug (BMSB) Symposium

Monday 9 August 2021 - 10.15am to 5.30pm
Napier War Memorial Centre, 48 Marine Parade, Napier

Register at: <https://nzpps.org/events/nzpps-symposium-2021/>

Registration Cost: \$160.00 Student/Retired: \$80.00

This symposium is jointly hosted by the New Zealand Plant Protection Society, Plant and Food Research, B3, and the BMSB Council. The aim of the Symposium is to connect those involved in BMSB research and share ideas to better prepare New Zealand for a BMSB response. Come along and hear from New Zealand scientists leading the research for BMSB preparedness and response as well as from Italy and USA, where the bug is established and causing significant damage. BMSB is a particularly difficult pest to eradicate and control, devastating horticulture and causing a nuisance overwintering in homes. As a hitchhiker, the risk of it arriving in New Zealand is high. Because of this, it's essential that we focus on research that will help prevent an incursion, eradicate if it gets into New Zealand and effectively manage it long term if necessary.



9.30 am Registration and morning tea
10.15 am Conference Opening

10.25-11.10am INTRODUCTION

Overview of BMSB

Nicola Robertson, Biosecurity Manager, NZAPI

Keynote presentation

Tracey Leskey, Appalachian Fruit Research Station, USDA

11.10-12.00pm BORDER CONTROL AND READINESS

BMSB Council overview and mandate

Nicola Robertson, Chair, BMSB Council

BMSB Council: completed research and awareness campaign

Nicola Robertson/Diane Anderson, Chair/Technical Lead, BMSB Council

National brown marmorated stink bug surveillance programme

Rory MacLellan, Principal Advisor, MPI

The threat of the brown marmorated stink bug to plants of value to Maori

Alby Marsh, Plant & Food Research

Understanding the lifecycle and damage of BMSB in Italian kiwifruit orchards

Erin Lane, Biosecurity Adviser, Kiwifruit Vine Health

12.00-12.40pm NEW TECHNOLOGIES FOR DETECTION

Sensing brown marmorated stink bugs at the border

John Mitchell, Plant & Food Research, Ruakura Research Centre

eDNA for detection of BMSB

Simon Bulman, Plant & Food Research, Christchurch

New aerodynamic design principles for improved brown marmorated stink bug traps

Rachael Horner, Plant & Food Research, Christchurch

Developing electrophysiological techniques to measure the antennal responses of the brown marmorated stink bug, *Halyomorpha halys*, to host plant volatiles

Lee-Anne Manning, Plant & Food Research, Christchurch

12.40-1.40pm Lunch

1.40-2.40 pm INCURSION RESPONSES

Development of the sterile insect technique to support *Halyomorpha halys* eradication

Lloyd Stringer, Plant & Food Research, Christchurch

Development of the lure & kill and mass trapping to support *Halyomorpha halys* eradication

Lloyd Stringer, Plant & Food Research, Christchurch

Biological control preparedness for BMSB in New Zealand: a research update

Gonzalo Avila, Plant & Food Research, Auckland

Preliminary assessment of the dispersal capacity of *Trissolcus japonicus* after a release event

Matt Dyck, Kiwifruit Vine Health, Mount Maunganui

Insect growth regulators (IGRs)

Nicola Robertson, Biosecurity Manager, NZAPI, Hastings

Pre-emptive host-specificity testing of *Trissolcus japonicus* (Ashmead) (Hymenoptera:

Scelionidae) reveals high parasitism levels against the endemic New Zealand alpine shield bug in laboratory no-choice tests

Thomas Saunders, Plant & Food Research, Auckland

2.40-3.10 pm Afternoon Tea

3.10-4.30 pm LONGTERM MANAGEMENT

Biocontrol of BMSB in Europe

Claudio Loriatti, Fondazione Edmund Mach, Italy

BMSB long term management in apples

Nicola Robertson, Biosecurity Manager, NZAPI, Hastings

Controlling stink bug in Northern Hemisphere kiwifruit orchards

Shane Max, Zespri, Mount Maunganui

Exploring BMSB control options in kiwifruit

Chandan Pal, Zespri, Mount Maunganui

Living with BMSB

Anne Nielson, Rutgers University, USA

4.30-5.30 pm Networking Session, Drinks & Canapes

For more information:
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