

**The IX International  
Symposium on Thysanoptera  
and Tospoviruses, August 31  
to September 4 2009, Gold  
Coast Queensland**

Denis Persley  
International Symposium on  
Thysanoptera and Tospoviruses

Project Number: MT09052

## **MT09052**

This report is published by Horticulture Australia Ltd to pass on information concerning horticultural research and development undertaken for the vegetables, onion, potato, nursery, strawberry, pome fruit and summerfruit industry.

The research contained in this report was funded by Horticulture Australia Ltd with the financial support of International Symposium on Thysanoptera and Tospoviruses.

All expressions of opinion are not to be regarded as expressing the opinion of Horticulture Australia Ltd or any authority of the Australian Government.

The Company and the Australian Government accept no responsibility for any of the opinions or the accuracy of the information contained in this report and readers should rely upon their own enquiries in making decisions concerning their own interests.

ISBN 0 7341 2228 4

Published and distributed by:  
Horticulture Australia Ltd  
Level 7  
179 Elizabeth Street  
Sydney NSW 2000  
Telephone: (02) 8295 2300  
Fax: (02) 8295 2399

© Copyright 2010



*Know-how for Horticulture™*

**FINAL REPORT – HORTICULTURE AUSTRALIA LIMITED**

**PROJECT NUMBER MTO9052 (30 November 2009)**

THE IX INTERNATIONAL SYMPOSIUM ON  
THYSANOPTERA AND TOSPOVIRUSES, 31 AUGUST  
TO 4 SEPTEMBER 2009, GOLD COAST,  
QUEENSLAND, AUSTRALIA

**DENIS PERSLEY**

*Australian Plant Virology Group*

# Contents

<b>Media Summary</b> .....	
<b>Introduction</b> .....	
<b>Symposium objectives</b> .....	
<b>Background</b> .....	
<b>Organising committee</b> .....	
<b>Symposium program</b> .....	
<b>Symposium evaluation</b> .....	
<b>Key outcomes</b> .....	
<b>Dissemination of Symposium information</b> .....	
<b>Recommendations</b> .....	
<b>Acknowledgements</b> .....	
<b>Attachments</b>	
(1) <b>Symposium budget</b>	
(2) <b>Survey form</b>	
(3) <b>List of delegates</b>	

## **Media Summary**

Thrips, which are small, slender insects with sucking mouth parts, are a common in most ecosystems. A relatively small number of the known species are common and serious pests of fruit, vegetable, field and ornamental crops worldwide. Examples include the western flower thrips, onion thrips and tomato thrips. In addition to direct damage to crops, thrips are the specific vector or carrier of viruses in the tomato spotted wilt or tospovirus group of plant viruses. Viruses within this group are among the most widespread and damaging viruses worldwide. Tomato spotted wilt virus, for example, is ranked as one of the ten most economically important viruses of plants worldwide.

Thrips and tospoviruses are very difficult to effectively manage due to the wide range of hosts of both thrips and tospoviruses, the complex virus transmission process, the rapid development of insecticide resistance among pest species and the lack of resistant germplasm among many susceptible crop hosts.

Managing these formidable opponents requires a strong international effort from researchers and consultants. The major forum to discuss progress and plan future efforts is the International Symposium on Thrips and Tospoviruses. The ninth of these symposia was hosted by Australia and held on the Gold Coast, Queensland from August 31 to September 4 2009. There were 112 delegates from 20 countries, providing an excellent opportunity for Australian scientists and industry representatives to interact, share issues and solutions and foster future collaborations.

Highlights of the meeting included presentations on improved management of thrips and tospoviruses in vegetable and grain legume crops; the successful implementation of integrated pest management against western flower thrips in strawberries in Australia and the international program to unravel the genetic structure of thrips with the long term goal of providing more effective control through genetic manipulation.

New tospovirus species were reported and the list of known vector species expanded. Presentations from the USA indicated the increasing importance of Iris yellow spot virus in both seed and bulb onion crops. Presentations at the Symposium clearly emphasised that tospoviruses and thrips are biosecurity risks for Australian industries. The greatest diversity of tospovirus species occurs in Asia as do several recently recorded vector species. Delegates strongly supported continuation of the Symposia as the primary forum for those working in this diverse area with the next meeting to be held in Brazil in 2012.

## **Introduction**

The IX International Symposium on Thysanoptera and Tospoviruses was held at the SeaWorld Resort, Gold Coast, Queensland from August 31 to September 4 2009. There were 112 delegates from 20 countries, providing an excellent opportunity to interact, share issues and solutions and foster future collaborations.

## **Symposium objectives**

The objectives of the Symposium were to review and discuss current work and progress on all aspects of the biology and management of thrips and the viruses which they transmit.

## **Background**

Thrips pests in Australia, particularly western flower thrips, tomato thrips, onion thrips and melon thrips cause serious direct damage to fruit crops including apples, stone fruit, strawberry and vegetable crops including onion, capsicum, cucurbits and tomato. Of at least equal importance is their role as specific vectors of tospovirus, the collective name for virus species within the tomato spotted wilt virus or tospovirus group. This group of plant viruses are among the most economically important viruses worldwide, causing estimated losses of some Aus \$ 2 billion worldwide. Tospoviruses are members of the family Bunyaviridae which contains five genera and the tospovirus genus contains plant infecting viruses; viruses in the four other genera infect vertebrates and are spread primarily by ticks and mosquitoes. Tospoviruses are very difficult to manage because of the complex transmission process, the wide host ranges of many tospoviruses and their thrips vectors, the lack of resistant germplasm among many susceptible crop hosts and the rapid development of insecticide resistance in thrips populations.

In Australia, tomato spotted wilt virus (TSWV) causes severe damage to vegetable crops in all States with particular problems in the Sydney basin, the north Adelaide plain and the Perth metropolitan area.

Capsicum chlorosis virus is a problem in capsicum and tomato crops in coastal Queensland. Iris yellow spot virus is present in Australia and is an emerging problem in onion production worldwide.

There is also a significant biosecurity risk to Australian horticulture industries from thrips species and tospoviruses present in south-east Asia and currently absent from Australia.

The economic importance of thrips and TSWV is reflected in the number of HAL-funded projects in these areas over at least a 10 year period, as well as their priority with special interest groups such as the vegetable IPM and thrips management task forces addressing virus/ thrips problems in the Sydney basin and the north Adelaide Plain.

The need to protect crops against this formidable combination of insect and virus and the recognition that entomologists, virologists and other specialists needed to pool resources led to a workshop in the USA in 1987 from which the international symposia developed.

The VIII International Symposium was held in California in 2005 and Australia was asked to host the IX Symposium in 2009. Queensland was selected as the venue and an organizing committee formed.

## **Organising Committee**

Denis Persley (Chair, Organising Committee), Principal Plant Pathologist, Queensland Primary Industries and Fisheries, DEEDI, Indooroopilly, QLD.

Associate Professor Calum Wilson (Chair, Program Committee and Scientific Advisory Committee), Tasmanian Institute of Agricultural Research, University of Tasmania, Hobart. Desley Tree, Collections manager, thrips taxonomist, Queensland Primary Industries and Fisheries.

Dr John Thomas, Senior Principal Plant Virologist, Queensland Primary Industries and Fisheries, Indooroopilly, QLD.

Murray Sharman, Plant Pathologist, Queensland Primary Industries and Fisheries, Indooroopilly, QLD.

Sally Brown, Sally Brown Conference Connections, PO Box 108, Kenmore QLD

### **Symposium program**

The program was designed around keynote sessions and concurrent sessions. There were two keynote speakers on each of three days and a keynote address to close the Symposium. There were two concurrent at most other times, designed to prevent, so far as possible, similar topics being presented at the same time.

A copy of the program is included in the proceedings.

### **Evaluation of the Symposium**

Delegates were asked to complete an evaluation form on the final day of the Symposium.

A copy of this form is included in the report

Fifty- one completed forms were returned.

Forty nine of 51 respondents ranked the keynote and concurrent sessions as excellent to very good (32@5 and 17@4). Of these, 32 ranked the keynote addresses @5 and 17 @4.

Forty- four of 51 respondents ranked the concurrent sessions as very good to excellent (14@ 5 and 30@ 4).

There were 38 poster presentations which were ranked as 5 (excellent) by 8 respondents, 4 (very good) by 30 and appropriate by 11 respondents.

These figures confirm comments made by delegates during discussions with organizing team members during and after the meeting. There were very positive comments about the quality, relevance and appropriate mix of topics in both the keynote and concurrent sessions. The 15 minute discussion period allocated at the end of each concurrent session was very successful, allowing good discussion on all talks presented.

The aims of the symposium were achieved in presenting a very broad range of topics with lively discussion over a diverse range of topics.

All delegates responding to the survey ranked conference organization as very good to excellent and the majority (41 of 50) ranked the venue, catering and social events as very good to excellent.

### **Key outcomes/ issues addressed**

- New tospovirus species continue to emerge as do the number of thrips species known to transmit these viruses. Nine species of thrips in three genera were known to be vector species in 2002 while 14 species across five genera are now known to be vectors. One new vector species and several new tospovirus species were reported at the Symposium. This situation will continue, and very likely increase in frequency, as all vector species seem capable of cosmopolitan distribution, are polyphagous and have broad host ranges that allow species to overlap and share infected plant hosts. Tospoviruses are among the most variable of virus groups with new species likely to arise frequently through mutation with recombination and reassortment events adding to the pool of genetic diversity. Several speakers considered that increased climate variability will favour the continued expansion of the geographic range of thrips vector species and are likely to enhance the conditions for tospovirus survival.
- With this background there was a strong Symposium theme on the epidemiology studies and the application of this knowledge to virus and vector management. This theme was particularly evident in contributions from the USA and Australia with virus management in vegetable crops and peanut being important components.

Topics included management of western flower thrips in lettuce, deployment of resistant cultivars, cultural management of Tomato spotted wilt virus (TSWV), detection of virus in thrips and predictive systems in virus management.

Several speakers, e.g. Burfield, McDougall, reported results from HAL-funded projects on TSWV/ thrips management in protected cropping and TSWV management in lettuce. Information from these sessions has been applied to current project work on tospoviruses in vegetable crops in Australia and assisted in developing new areas of research in new project applications.

- Presentations at the meeting reinforced the increased importance of Iris yellow spot virus (IYSV) worldwide as a pathogen of both onion bulb and seed crops. Although present in several Australian States, the importance of the virus in the Australian industry is uncertain. Considerable new information on IYSV detection, transmission and management was presented which will enhance the capacity of industry to assess the impact of this emerging problem for the Australian onion industry. Information from the Symposium has been used as a basis to develop future project work on IYSV in Australia.
- Presentations at the Symposium clearly emphasised that tospoviruses and thrips are biosecurity risks for the Australian vegetable, field crop and nursery industries. The greatest diversity and the majority of new virus species occur in Asia as do several recently recorded vector species. Capsicum chlorosis virus, first found in Australia in 1999, has now been found in several countries in south east Asia and almost certainly entered Australia in recent years. Presentations at the Symposium provided valuable new information on the detection, hosts and importance of these viruses and vectors in Asia which will enhance our biosecurity preparedness.
- Dr Dorith Rotenberg (USA) described a new and significant international project to map the genome of the western flower thrips (*Frankliniella occidentalis*) with the long term goal of using this data to design biologically based strategies to manage thrips populations and prevent virus spread. The new sequences identified will be used in gene expression studies and functional assays to determine their role in virus/vector relationships. This detailed, long term work has the potential to provide novel, sustainable management systems for thrips and tospoviruses.
- A keynote address and several presentations discussed current and future use of semiochemicals (pheromones and alleochemicals) to develop new tools for thrips management. The most common current use is through improved monitoring with significant potential for improved management in both field and protected cropping through mass trapping and lure and kill systems which bring thrips to areas with high populations of introduced predators.
- A workshop presented by the Cooperative Research Centre for National Plant Biosecurity demonstrated the value and versatility of distance diagnostics using remote imaging and on line databases. These tools allow national and international access to taxonomists and other specialists.

**Other highlights:**

- A keynote address by Dr Peter Waterhouse on virus defence and signalling pathways in plants-a clear and captivating address on a defence mechanism common to many living organisms and with profound consequences for the development of control strategies for virus diseases of plants.



- The closing address by Professor Anna Whitfield (USA) who presented a strategy to reduce the spread of tospoviruses through the inhibition of thrips transmission using modified viral proteins.
- The award of the inaugural Mound Fellowship to Mr Kambiz Minaei, Shiraz University, Iran.
- A post conference visit to the Bundaberg vegetable production area by Dr Scott Adkins (USDA, Florida), Dr Pissawan Chiemsombat (Kasetsart University, Thailand, Dr John Thomas, Denis Persley, Dr Cherie Gambley and Murray Sharman (all Queensland Primary Industries and Fisheries) to inspect and discuss vegetable virus disease management.
- Visits by several Symposium delegates to Desley Tree, Thrips taxonomist, QPIF to discuss and undertake work on thrips collections and taxonomy.
- The opportunities taken by all Australian delegates, many of whom have HAL or GRDC –funded projects, to establish new contacts, reinforce existing relationships and develop future collaborations at both national and international levels.

### **Dissemination of Symposium information**

The Symposium was well advertised both nationally and internationally. Registration was available to all sectors of Australian primary industries and to research and extension workers in all countries.

Abstracts of presentations are available as hard copy conference abstracts, on the Symposium website ([www.istt09.org/](http://www.istt09.org/)) and on a memory stick supplied to each registrant.

The Symposium abstracts will be published in the Journal of Insect Science in 2010.

Copies of abstracts have been supplied to HAL, GRDC, CRC National Plant Biosecurity and central library, Primary Industries and Fisheries, Queensland.

A press release concerning the Symposium and its benefits to industry was released by the QPIF media unit in late August 2009.

Visits by delegates before and after the meeting to various regions allowed interactions with growers and industry technical staff.

### **Recommendations**

The delegates saw the Symposia as the prime international meeting for those working on thrips, tospoviruses and their interaction. The symposia are recognised as the primary means of facilitating and maintaining international collaborations in these areas of research. There was strong support to continue the meetings and Dr Renato Resende of Brazil has agreed to host the next Symposia in 2012.

Although there was good evidence from presentations that important recent advances have been made in the management of thrips pests and tospoviruses in crops, both the insects and viruses remain a major cause of crop losses in many countries. Delegates recommended that key areas of research should include:

- emphasis on identifying additional and/or more durable sources of resistance to tospoviruses across a broad range of crop species.
- further investigate the effects of climate variation on the distribution and importance of thrips and tospoviruses, particularly in relation to emerging issues in Asia.
- support new initiatives in the study of thrips genomics and the application of this research to pest management.

## **Acknowledgements**

The financial support of the following organisations is gratefully acknowledged:

Grains Research and Development Corporation (GRDC)

Horticulture Australia Limited (HAL)

CRC for National Plant Biosecurity (CRCNPB)

Dow AgroSciences

Australasian Plant Pathology Society

Australian Potato Research Program

Syngenta Seeds

Bayer Crop Sciences

Tasag pathogen testing service (Tasmanian Department of Primary Industries)

Rijk Zwaan Australia

CSIRO Publishing

PCA (Peanut Company of Australia)

Plant Health Australia

Nikon

Queensland Government (Primary Industries and Fisheries).

# Symposium budget

18-12-2009

ISTT 09

3-29 PM

Conference		International Symposium on Thysanoptera and Tospoviruses ISTT 09									
Location		Sea World Resort Queensland									
Run Dates		31 August - 4 September 2009									
Updated: 1 December 2008											
Income		Anticipated Surplus					Actual Surplus				
		\$ 8,042.45 \$ 8,123.16					10,968.56				
Days duration 5							Net Actual Income Gross				
Total registered delegates		Percentage Estimates		Gross AUD\$ (GST Incl)		105		120			
Early Reg (before 30 June 2009)	65%	57.75	\$ 495.00	\$ 28,566.25	\$ 32,070.00	74	\$ 33,300.00	\$ 3,330.00	\$36,630.00		
Full Reg (after 30 June 2009)	25%	20.25	\$ 550.00	\$ 14,437.50	\$ 10,400.00	11	\$ 5,500.00	\$ 550.00	\$8,050.00		
Day Registration (suggest on application)			\$ 250.00	\$ -	\$ -	9	\$ 2,045.45	\$ 204.55	\$2,250.00		
Students (before 30 June 2009)	10%	10.5	\$ 250.00	\$ 2,615.00	\$ 3,000.00	8	\$ 1,818.18	\$ 181.82	\$2,000.00		
Students (after 30 June 2009)	6%	5.25	\$ 300.00	\$ 1,515.00	\$ 1,800.00	1	\$ 272.73	\$ 27.27	\$500.00		
Discounted Registration						1	\$ 359.09	\$ 35.91	\$395.00		
Complimentary reg (Inv. Spks. & others)	5%	5.25		\$ -	\$ -	18	\$ -	\$ -	\$ -		
Total delegate fees	100%	105		\$ 47,233.75	\$53,970.00	120	\$ 43,295.45	\$ 4,329.55	\$47,625.00		
Additional Dinner tickets						4	\$ 280.00	\$ 28.00	\$308.00		
Australian Outback Spectacular Tickets						32	\$ 2,880.00	\$ 288.00	\$3,168.00		
Additional Welcome Reception tickets							\$ 180.00	\$ 18.00	\$198.00		
Accommodation deposits received							\$ 8,752.73	\$ 875.27	\$9,628.00		
Trade Displays				\$ 550.00	\$ 550.00		\$ 550.00	\$ 50.00	\$550.00		
Sponsorship including satchel inserts				\$ 35,442.00	\$ 35,442.00		\$ 32,220.00	\$ 3,222.00	\$35,442.00		
Interest received from Bank											
Total Income				\$ 83,215.75	\$99,992.00		\$ 88,108.18	\$ 8,810.82	\$96,919.00		
<b>EXPENDITURE</b>											
<b>Promotion and Printing</b>											
		Fixed Costs		Variable Costs							
Advertising & Publicity		\$ 500.00			\$ 50.00		\$ -	\$ -			
Graphic Artist		\$ 150.00		\$ 160.00	\$ 150.00		\$ 138.36	\$ 13.64	\$ 150.00		
Web site set up and maintenance		\$ 1,500.00		\$ 1,500.00	\$ 1,500.00		\$ 1,363.64	\$ 136.36	\$ 1,500.00		
Conference Handbook / Program / Abstracts		\$ 13.00		\$ 1,365.00	\$ 1,660.00		\$ 1,653.47	\$ 165.53	\$ 1,818.97		
Preparation of Abstracts for Handbook estimate		\$ 550.00		\$ 550.00	\$ 550.00		\$ 530.00	\$ 53.00	\$ 583.00		
Proceedings production on USB		\$ 9.00		\$ 945.00	\$ 1,050.00		\$ 948.75	\$ 94.88	\$ 1,043.63		
Miscellaneous											
Contingency		\$ 1,000.00		\$ 1,000.00	\$ 1,000.00		\$ -	\$ -			
Insurance		\$ 1,700.00		\$ 1,700.00	\$ 1,700.00		\$ 1,063.74	\$ 100.37	\$ 1,164.11		
Management Fee		\$ 5,000.00		\$ 5,000.00	\$ 5,000.00		\$ 4,545.45	\$ 454.55	\$ 5,000.00		
Flooring for Conference Dinner		\$ 500.00		\$ 500.00	\$ 500.00		\$ 140.00	\$ 14.00	\$ 514.00		
Band for Conference Dinner							\$ 272.73	\$ 27.27	\$ 300.00		
Accommodation deposits paid to SWR							\$ 8,036.36	\$ 803.64	\$ 8,840.00		
HAL sponsorship deposit from ISTT							\$ 7,231.84	\$ 723.18	\$ 7,955.02		
Keynotes Speakers & Sponsored delegates											
Travel		\$ 1,000.00	2	\$ 2,000.00	\$ 2,000.00		\$ 711.82	\$ 71.18	\$ 783.00		
Accommodation 2 Spk x 4 nights		\$ 175.00	4	\$ 1,400.00	\$ 1,400.00		\$ 1,272.73	\$ 127.27	\$ 1,400.00		
Registration expenses for Keynote							\$ -	\$ -			
Gifts		\$ 100.00		\$ 100.00	\$ 100.00		\$ -	\$ -			
Taxi/mileage / parking		\$ 100.00		\$ 100.00	\$ 100.00		\$ -	\$ -			
Freight/tourfers		\$ 100.00		\$ 100.00	\$ 100.00		\$ -	\$ -			
Facilities / Equipment hire							\$ -	\$ -			
Audio visual TBC when venue decided		\$ 7,340.00		\$ 7,340.00	\$ 7,340.00		\$ 2,988.64	\$ 288.88	\$ 3,287.50		
Miscellaneous equipment from SW									\$ 790.00		
Hire of poster boards		\$ 55	10	\$ 550.00	\$ 650.00		\$ 618.18	\$ 61.82	\$ 680.00		
Signage / banners (PR3)		\$ 150		\$ 150.00	\$ 150.00		\$ 160.75	\$ 16.08	\$ 176.83		
Room Hire 2 days		\$ 500.00	3	\$ 1,500.00	\$ 1,500.00		\$ 727.27	\$ 72.73	\$ 600.00		
Malrose Room for posters & trade		\$ -		\$ -	\$ -		\$ -	\$ -			
EFTPOS facility will be less as used SBCC		\$ 350.00		\$ 350.00	\$ 350.00		\$ -	\$ -			
Registration of business							\$ 212.73	\$ 21.27	\$ 234.00		
<b>VARIABLE</b>											
<b>Participant Costs</b>											
Welcome Reception & BBQ Monday 31 Aug		1 hour	\$63.00	\$ 6,815.00	\$ 7,650.00		\$ 4,795.45	\$ 479.55	\$ 5,275.00		
Ribbles and drinks Tuesday 1 September		1/2 hour	\$ 22.00	\$ 2,310.00	\$ 2,640.00		\$ 2,000.00	\$ 200.00	\$ 2,200.00		
Conference Dinner Thursday 3 September			\$ 55.00	\$ 5,775.00	\$ 6,600.00		\$ 5,000.00	\$ 500.00	\$ 5,500.00		
Beverage for ONE hour			\$ 18.00	\$ 1,890.00	\$ 2,160.00		\$ 1,963.64	\$ 196.36	\$ 2,160.00		
Balance - various							\$ 1,440.95	\$ 144.70	\$ 1,591.65		
Australian Outback Spectacular (additional)				\$ 3,168.00	\$ 3,168.00		\$ 2,880.00	\$ 288.00	\$ 3,168.00		
Package (m/va tea & lunch)			\$ 55.00	\$ 17,325.00	\$ 19,800.00		\$ 18,000.00	\$ 1,600.00	\$ 17,600.00		
Half day package (cannot break down)			\$ 50.00	\$ 6,260.00	\$ 6,000.00		\$ 4,772.73	\$ 477.27	\$ 5,250.00		
Postage			\$ 0.50	\$ 82.50	\$ 60.00		\$ 54.55	\$ 5.45	\$ 60.00		
Telephone & Fax, EMAIL			\$ 6.00	\$ 636.00	\$ 600.00		\$ 545.45	\$ 54.55	\$ 600.00		
Stationery, name badges etc etc			\$ 8.00	\$ 840.00	\$ 960.00		\$ 872.73	\$ 87.27	\$ 960.00		
Satchels (CRC 1sp top gloves)			\$ 12.00				\$ -	\$ -			
Bank Charges - estimate			\$ 1.00	\$ 105.00	\$ 120.00		\$ 109.09	\$ 10.91	\$ 120.00		
EFTPOS monthly debt (4 months)			\$ 33.00	\$ 165.00	\$ 165.00		\$ 150.00	\$ 15.00	\$ 165.00		
Merchant credit card fees 80% @ 1.29%				\$ 680.02	\$ 777.17		\$ 477.27	\$ 47.73	\$ 525.00		
Sally Brown Conference Connections PCO			\$ 25.00	\$ 2,675.00	\$ 3,000.00		\$ 2,727.27	\$ 272.73	\$ 3,000.00		
Total variable costs			\$ 347.50								
Sub-Total Expenditure				\$ 73,625.52	\$80,240.17		\$ 78,349.60	\$ 7,634.96	\$ 84,774.56		
2% cpi contingency				\$ 1,472.51	\$ 1,604.60				\$ 12,144.44		
10% GST included in all costs				\$ 75,098.03	\$ 81,844.77				\$ 8,810.62		
Expenditure Inclu gst & cpi				\$ 75,098.03	\$ 81,844.77				\$ 3,333.62		
Plus GST payable to ATO on income				\$ 7,655.07	\$ 8,178.36				\$ 7,634.96		
Total expenditure				\$ 82,753.10	\$ 90,023.13				\$ 10,968.56		
Less Approx. credit from ATO				\$ 7,659.80	\$ 8,184.50						
TOTAL				\$ 75,153.30	\$ 81,838.64						
Surplus / Loss				\$ 8,062.45	\$ 8,123.16						
Per delegate costs (variable & fixed)				\$ 716.76	\$ 779.42						

# ISTT09 DELEGATE SURVEY

AREA OF INTEREST:    ENTOMOLOGY     VIROLOGY     OTHER

IN WHICH COUNTRY DO YOU WORK? .....

HOW MANY ISTTs HAVE YOU ATTENDED? .....

WHAT DID YOU ENJOY MOST ABOUT THE SYMPOSIUM? .....

.....  
 .....

DID YOU MAKE NEW CONTACTS / ESTABLISH LIKELY FUTURE COLLABORATIONS AT THE MEETING?

.....

DO YOU HAVE SUGGESTIONS TO IMPROVE FUTURE SYMPOSIA? .....

.....  
 .....

Please rate the following components of the Conference (circle the appropriate value)

*Poor = 1, Appropriate = 3, Very good = 5*

1. Quality of the Plenary Session:	1	3	3	4	5
2. Quality of the Concurrent Sessions:	1	2	3	4	5
3. Quality of the Posters:	1	2	3	4	5
4. Pre-conference Organisation:	1	2	3	4	5
5. Organisation at Conference:	1	2	3	4	5
6. Venue:	1	2	3	4	5
7. Social Functions:	1	2	3	4	5
8. Catering:	1	2	3	4	5
9. Registration Cost:	1	2	3	4	5

OTHER COMMENTS: .....

.....  
 .....

**Thank you**

**IX International Symposium on Thysanoptera and Tospoviruses  
Gold Coast, Queensland, Australia 31 August -4 September 2009**

**ADKINS, Dr Scott**

Research Plant Pathologist  
USDA, ARS, USHRL  
2001 S Rock Road  
FORT PIERCE FLORIDA 34945  
USA  
Telephone (Work): 772-462-5885  
Fax: 772-462-5986  
E-Mail: Scott.Adkins@ars.usda.gov

**ALLSOPP, Mrs Elleunorah**

Senior Researcher  
Agricultural Research Council Fruit, Vine & Wine  
Institute  
ARC Infruitec-Nietvoorbij  
Private Bag X5026  
Stellenbosch Western Cape Province 7599  
SOUTH AFRICA  
Telephone (Work): 27 21 809 3007  
Fax: 27 21 809 3584  
E-Mail: allsoppe@arc.agric.za

**ANNETTS, Dr Robert**

Development Biologist  
Dow Agrosociences  
70 Crown Street  
TOOWOOMBA QLD 4350  
AUSTRALIA  
Telephone (Work): 0427 063 234  
Fax: 07 4659 5272  
E-Mail: rannetts@dow.com

**BAKER, Mr Greg**

Senior Entomologist  
SARDI  
SARDI Entomology Unit  
GPO Box 397  
ADELAIDE SA 5064  
Telephone (Work): 61-8-8303-9544  
Fax: 61-8-8303-9542  
E-Mail: Greg.Baker@sa.gov.au

**BEASLEY, Dr Dean**

Senior Research Scientist  
Department of Primary Industries and Fisheries  
Entomology Building  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
Telephone (Work): 07 3896 9685  
Fax: 07 3896 9446  
E-Mail: dean.beasley@dpi.qld.gov.au

**BROUGHTON, Dr Sonya**

Horticultural Entomologist  
Dept Agriculture & Food Western Australia  
3 Baron-Hay Court  
SOUTH PERTH WA 6151  
Telephone (Work): 61 8 9368 3271  
E-Mail: smbroughton@agric.wa.gov.au

**BROWN, Mrs Haidee**

Senior Extension Officer  
Dept. Regional Development, Primary Industry,  
Fisheries and  
GPO Box 3000  
DARWIN NT 0801  
Telephone (Work): 61 8 8999 2258  
Fax: 61 8 8999 2312  
E-Mail: haidee.brown@nt.gov.au

**BURFIELD, Mr Tony**

Extension Officer  
South Australian Research and Development  
Institute (SARDI)  
GPO Box 397  
Adelaide  
ADELAIDE SA 5001  
Telephone (Work): 08 8303 9580  
E-Mail: Tony.Burfield@sa.gov.au

**BURNIP, Mr Graham**

Inursion Investigator  
MAF Biosecurity NZ  
Investigation & Diagnostic Centre  
PO Box 14018  
CHRISTCHURCH 8544  
NEW ZEALAND  
Telephone (Work): 64 3 943 3208  
E-Mail: graham.burnip@maf.govt.nz

**CAREY, Mr David**

Senior Horticulturalist  
Queensland Primary Industries and Fisheries  
C/ Entomology Building  
80 Meiers Rd  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
Telephone (Work): 07 3362 9386  
E-Mail: david.carey@dpi.qld.gov.au

**CHIEMSOMBAT, Dr Pissawan**

Assistant Professor  
Department of Plant Pathology Faculty of  
Agriculture  
Kasetsart University Kamphae  
1 Malaiman Road  
NAKHON PATHOM KAMPHAENGAEN  
DISTRICT 73140  
THAILAND  
Telephone (Work): 66 34351890  
Fax: 66 34351890  
E-Mail: agrpwc@ku.ac.th

**COLLINS, Mr Dom**

Senior Entomologist, Pest and Disease  
Identification  
The Food and Environment Research Agency  
Sand Hutton  
YORK YO41 1LZ  
UNITED KINGDOM  
Telephone (Work): 44 (0)1904 462215  
E-Mail: dom.collins@fera.gsi.gov.uk

**CRISP, Dr Peter**

Senior Entomologist  
SARDI  
GPO Box 397  
ADELAIDE SA 5001  
AUSTRALIA  
Telephone (Work): 61 8 8303 9371  
Fax: 61 8 8303 9544  
E-Mail: Peter.Crisp@sa.gov.au

**CROWE, Mr Bill**

Asst Reg. Mgr, Op Science & Senior Quarantine  
Entomologist  
AQIS  
42-44 Qantas Drive  
EAGLE FARM QLD 4009  
Telephone (Work): 61 7 3246 8716  
Fax: 61 7 3246 8661  
E-Mail: Bill.Crowe@aqis.gov.au

**DAVIDSON, Dr Melanie**

Scientist  
Plant & Food Research  
Gerald Street  
Private Bag 4704  
Lincoln  
CHRISTCHURCH CANTERBURY 7608  
NEW ZEALAND  
Telephone (Work): 64 3 325 9442  
Fax: 64 3 325 9372  
E-Mail: davidsonm@crop.cri.nz

**DEBNATH, Dr Palash**

Associate Professor  
Assam Agricultural University  
Faculty of Agriculture  
Assam Agricultural University  
JORHAT ASSAM 785013  
INDIA  
Telephone (Work): 91-376-2340101  
Fax: 91-376-2340101  
E-Mail: pnath1@rediffmail.com

**DE FACCI, Ms Monica**

Department of Ecology  
Lund University  
Sölvegatan 37  
LUND SE-22362  
SWEDEN  
Telephone (Work): 046-(0)46-2224498  
E-Mail: monica.de\_facci@ekol.lu.se

**DE KOGEL, Dr Willem Jan**

Team Leader Entomology and Virology  
Plant Research International  
Droevendaalsesteeg 1  
WAGENINGEN 6708 PB  
NETHERLANDS  
Telephone (Work): 31 317 480654  
E-Mail: willemjan.dekogel@wur.nl

**DIETZGEN, Dr Ralf**

Science Leader  
DEEDI -Primary Industries & Fisheries  
PO Box 6097  
ST LUCIA QLD 4067  
AUSTRALIA  
Telephone (Work): 61 7 3346 6503  
E-Mail: ralf.dietzgen@deedi.qld.gov.au

**DIFFIE, Mr Stan**

Research Coordinator  
University of Georgia  
122 S. Entomology Dr  
P. O. Box 748  
TIFTON GEORGIA 31793  
USA  
Telephone (Work): 01 229-386-3374  
E-Mail: diffie@uga.edu

**DONG, Dr Jia-Hong**

Biotechnology and Genetic Germplasm Institute  
Yunnan Academy of Agricultural Sciences  
Xueyun Road 9#  
Wuhua District  
KUNMING YUNNAN PROVINCE 650223  
P.R.CHINA  
Telephone (Work): 86-8715123133  
Fax: 86-8715160084  
E-Mail: dongjhn@126.com

**DOWNARD, Paul**

Dow AgroSciences Australia Ltd  
Locked Bag 502  
FRENCHS FOREST NSW 2086  
AUSTRALIA  
Telephone (Work): 02 9776 3476  
E-Mail: DOWNARD@dow.com

**DUFF, Mr John**

Senior Plant Protectionist  
Department of Primary Industries and Fisheries -  
Queensland  
Gatton Research Station  
Lmb 7, M/s 437  
GATTON QLD 4343  
Telephone (Work): 07 5466 2222  
Fax: 07 5462 3223  
E-Mail: John.Duff@deedi.qld.gov.au

**FAGAN, Mrs Laura**

Applied Entomologist  
Plant & Food Research  
Private Bag 4704  
CHRISTCHURCH CANTERBURY 8140  
NEW ZEALAND  
Telephone (Work): 64 3325 9627  
E-Mail: faganl@crop.cri.nz

**FEDOR, Dr Peter**

Assoc. Professor  
Comenius University  
Mlynsk"5 Dolina  
BRATISLAVA 84215  
SLOVAKIA  
Telephone (Work): 00421903 760209  
E-Mail: fedor@fns.uniba.sk

**FLETCHER, Mr John**

Virologist  
NZ Institute for Plant & Food Research  
Pb 4704  
CHRISTCHURCH  
NEW ZEALAND  
Telephone (Work): 64 3 3259506  
Fax: 64 3 3252074  
E-Mail: fletcherj@crop.cri.nz

**FONSAH, Dr Esendugue Greg**

Associate Professor  
University of Georgia  
15 RDC Road  
PO Box 1209  
TIFTON GEORGIA 31793-1209  
USA  
Telephone (Work): 01 229 386 3110  
Fax: 229 386 3440  
E-Mail: kathy52@uga.edu

**FORSYTH, Dr Leanne**

Plant Pathologist  
Department of Primary Industries New South  
Wales  
PMB 8  
CAMDEN NSW 2570  
AUSTRALIA  
Telephone (Work): 02 4640 6428  
Fax: 02 4640 6415  
E-Mail: leanne.forsyth@dpi.nsw.gov.au

**FRANSSEN, Mr Odin**

Project Officer  
Agronico Research  
11b Osterley Avenue  
12/37 Burgess St  
CALOUNDRA QLD 4551  
Telephone (Work): (61) 7 5492 7416  
E-Mail: ofranssen@agronico.com.au

**FUNDERBURK, Dr Joe**

Professor of Entomology  
University of Florida  
QUINCY FLORIDA 32351  
USA  
Telephone (Work): 850.875.7146  
Fax: 850.875.7188  
E-Mail: jef@ufl.edu

**GAMBLEY, Dr Cherie**

Plant Pathologist  
Department of Primary Industries and Fisheries -  
Queensland  
Plant Pathology Building  
80 Meiers Rd  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
Telephone (Work): 617 3896 9299  
E-Mail: cherie.gambley@deedi.qld.gov.au

**GEERING, Dr Andrew**

Principal Plant Pathologist  
Department of Primary Industries and Fisheries -  
Queensland  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
Telephone (Work): 61-7-3896 9353  
Fax: 61-7-3896 9533  
E-Mail: andrew.geering@deedi.qld.gov.au

**GUNAWARDANA, Dr Disna**

Scientist  
Biosecurity New Zealand  
231 Morrin Road  
St Johns  
AUCKLAND  
NEW ZEALAND  
Telephone (Work): 00 64 909 5718  
Fax: 00 64 909 5739  
E-Mail: disna.gunawardana@maf.govt.nz

**HERRON, Dr Grant**  
Senior Research Scientist  
Department of Primary Industries -NSW  
PMB 8  
CAMDEN NSW 2570  
AUSTRALIA  
Telephone (Work): 61 2 4640 6471  
E-Mail: grant.herron@dpi.nsw.gov.au

**HORNE, Dr Paul**  
Director/Entomologist  
IPM Technologies Pty Ltd  
P O Box 560  
HURSTBRIDGE VIC 3099  
Telephone (Work):  
Fax:  
E-Mail:  
03 9710 1554  
03 9710 1354  
ipmtechnologies@bigpond.com

**JONES, Dr Roger**  
Principal Plant Virologist  
Department of Agriculture & Food WA  
Agricultural Research Western Australia  
2 Baron -Hay Court  
SOUTH PERTH WA 6151  
Telephone (Work): 08 9368 3269  
E-Mail: rjones@agric.wa.gov.au

**KAY, Mr Iain**  
Senior Entomologist  
Qld Primary Industries and Fisheries  
Bundaberg Research Station  
49 Ashfield Road  
BUNDABERG QLD 4670  
Telephone (Work): 61 7 4155 6244  
Fax: 07-4155 6129  
E-Mail: iain.kay@deedi.qld.gov.au

**KENNEDY, Dr George**  
Professor  
North Carolina State University  
Department of Entomology  
Box 7613  
RALEIGH NORTH CAROLINA 27695-7613  
USA  
Telephone (Work): 011 919 515 4011  
E-Mail: george\_kennedy@ncsu.edu

**KIRK, Dr William**  
Senior Lecturer  
Keele University  
School of Life Sciences  
KEELE STAFFORDSHIRE ST5 5BG  
UNITED KINGDOM  
Telephone (Work): 44 1 7 8273 3517  
Fax: 44 1 7 8273 3516  
E-Mail: w.d.j.kirk@biol.keele.ac.uk

**KOSCHIER, Dr Elisabeth**  
Assistant Professor  
Institute of Plant Protection  
University of Natural Resources and Applied Life  
Peter Jordan-Strasse 82  
VIENNA 1190  
AUSTRIA  
Telephone (Work): (0043 1) 47 654 3353  
E-Mail: elisabeth.koschier@boku.ac.at

**KYAMANYWA, Prof Samuel**  
Dean -Faculty of Agriculture  
Makerere University  
Pest Management  
Department of Crop Science  
P O Box 7062  
KAMPALA 256  
UGANDA  
Telephone (Work): 256 414 533620  
Fax: 256 414 531641  
E-Mail: skyamanywa@agric.mak.ac.ug

**LANGSTON, Dr David**  
Associate Professor/Extension Vegetable  
Pathologist  
University of Georgia  
4604 Research Way  
P.O. Box 748  
TIFTON GEORGIA 31793  
USA  
Telephone (Work): 1-229-386-7495  
Fax: 1-229-386-7415  
E-Mail: dlangsto@uga.edu

**LOVELESS, Mr Roger**  
Senior Development Specialist  
Bayer CropScience  
12 Grandview Road  
BOX HILL SOUTH VIC 3128  
AUSTRALIA  
Telephone (Work): 03 9808 7775  
E-Mail: roger.loveless@bayercropscience.com

**LU, Prof Yaobin**  
Director of Institute  
Institute of Plant Protection and Microbiology  
Zhejiang Academy of Agriculture  
198 Shiqiao Road  
HANGZHOU ZHEJIANG 310021  
P.R. CHINA  
Telephone (Work): 86-571-86400445  
Fax: 86-571-86400445  
E-Mail: luybcn@163.com



**LUDWIG, Dr Scott**

Extension Program Specialist -IPM  
Texas AgriLife Extension Service  
P O Box 38  
1710 N Hwy 3053  
OVERTON TEXAS 75684  
USA  
Telephone (Work): 1 903 834 6191  
E-Mail: [swludwig@tamu.edu](mailto:swludwig@tamu.edu)

**MCDOUGALL, Dr Sandra**

Industry Leader -Field Vegetables  
Department of Primary Industries -New South  
Wales  
Yanco Agricultural Institute  
YANCO NSW 2703  
AUSTRALIA  
Telephone (Work): 02 69512728  
Fax: 02 6951 2692  
E-Mail: [sandra.mcdougall@dpi.nsw.gov.au](mailto:sandra.mcdougall@dpi.nsw.gov.au)

**MCGRATH, Mr Des**

Principal Horticulturist  
Queensland Primary Industries and Fisheries  
Gatton Research Station  
Lmb 7 Ms 437  
GATTON QLD 4343  
Telephone (Work): 61 7 5466 2299  
Fax: 61 7 5466 2208  
E-Mail: [Desmond.McGrath@deedi.qld.gov.au](mailto:Desmond.McGrath@deedi.qld.gov.au)

**MCKIRDY, Dr Simon**

Chief Executive Officer  
CRC National Plant Biosecurity  
BRUCE ACT  
AUSTRALIA  
Telephone (Work):  
E-Mail:  
02 6201 2882  
[lauren@crplantbiosecurity.com.au](mailto:lauren@crplantbiosecurity.com.au)

**MCMICHAEL, Ms Lee**

Senior Laboratory Technician  
Queensland Primary Industries and Fisheries  
Plant Pathology, QPIF, IRC  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
Telephone (Work): 07 3896 9374  
Fax: 07 3896 9533  
E-Mail: [Lee.Mcmichael@deedi.qld.gov.au](mailto:Lee.Mcmichael@deedi.qld.gov.au)

**MILINKOVIC, Mr Mirko**

Research Scientist  
Victorian Department of Primary Industries  
Private Bag 15, Ferntree Gully Delivery Centre  
621 Burwood Highway  
KNOXFIELD VIC 3156  
Telephone (Work): 61 3 9210 9222  
Fax: 61 3 9800 3521  
E-Mail: [mirko.milinkovic@dpi.vic.gov.au](mailto:mirko.milinkovic@dpi.vic.gov.au)

**MINAEI, Mr Kambiz**

Shiraz University  
Plant Protection Department  
College of Agriculture  
SHIRAZ  
IRAN  
E-Mail: [Kminaei@shirazu.ac.ir](mailto:Kminaei@shirazu.ac.ir)

**MINAKUCHI, Dr Chieka**

Nagoya University  
NAGOYA  
JAPAN  
Telephone (Work): 81-52-789-4035  
Fax: 81-52-789-4032  
E-Mail: [c\\_mina@agr.nagoya-u.ac.jp](mailto:c_mina@agr.nagoya-u.ac.jp)

**MITTER, Dr Neena**

Principal Biotechnologist  
Queensland Primary Industries and Fisheries  
Level 3, Ritchie Building 64 C  
Research Lane  
University of Queensland  
ST LUCIA QLD 4072  
AUSTRALIA  
Telephone (Work): 61 7 3346 6513  
E-Mail: [neena.mitter@deedi.qld.gov.au](mailto:neena.mitter@deedi.qld.gov.au)

**MO, Dr Jianhua**

Entomologist  
Department of Primary Industries -New South  
Wales  
Yanco Agricultural Institute  
PMB  
YANCO NSW 2705  
Telephone (Work): 02 6951 2537  
Fax: 02 6951 2719  
E-Mail: [jianhua.mo@dpi.nsw.gov.au](mailto:jianhua.mo@dpi.nsw.gov.au)

**MOUND, Laurence**

CSIRO Entomology  
PO Box 1700  
CANBERRA ACT 2601  
Telephone (Work): 02 6246 4280  
Fax: 02 6246 4264  
E-Mail: [Laurence.Mound@csiro.au](mailto:Laurence.Mound@csiro.au)

**MULLIS, Mr Stephen**

Research Professional  
University of Georgia  
94 Ellis Bryan Road  
TIFTON GEORGIA 31793  
USA  
Telephone (Work): 1 229 386 7230  
E-Mail: swmullis@uga.edu

**MURAI, Prof Tamotsu**

Professor  
Utsunomiya University  
Faculty of Agriculture  
350 Mine  
UTSUNOMIYA TOCHIGI 321-8505  
JAPAN  
Telephone (Work): 81.28.649.5451  
Fax: 81.28.649.5451  
E-Mail: murait@cc.utsunomiya-u.ac.jp

**NAKAO, Dr Shiro**

Associate Professor  
Kyoto Prefectural University  
Shimogamo Nagaragi-Cho 1-5, Sakyo-Ku  
KYOTO 606-8522  
Telephone (Work): 81-75-703-5618  
Fax: 81-75-703-5618  
E-Mail: nakao@kpu.ac.jp

**NAULT, Dr Brian**

Associate Professor  
Cornell University  
Department of Entomology, NYSAES  
630 W North St  
GENEVA NEW YORK 14456  
USA  
Telephone (Work): 011-315-787-2354  
Fax: 011-215-787-2326  
E-Mail: ban6@cornell.edu

**NEWMAN, Ms Julie**

Cooperative Extension Advisor  
University of California Cooperative Extension  
669 County Square Drive Ste 100  
VENTURA CALIFORNIA 93003-5401  
Telephone (Work): 8056451459  
E-Mail: jpnewman@ucdavis.edu

**NIELSEN, Ms Mette-Cecilie**

Entomologist  
Plant & Food Research  
Gerald St  
Lincoln  
CHRISTCHURCH CANTERBURY  
NEW ZEALAND  
Telephone (Work): 0064-3-325-9686  
E-Mail: nielsenm@crop.cri.nz

**NORTHFIELD, Mr Tobin**

Washington State University  
Department of Entomology  
P O Box 646382-FSHN 166  
PULLMAN WASHINGTON 99164-6382  
USA  
Telephone (Work):  
E-Mail:  
509-335-7965  
tnorthfield@wsu.edu

**NYASANI, Mr Johnson**

Ph. D Student, University of Hannover, Germany  
ICIPE-African Insect Science for Food and Health  
Thrips IPM Program, Plant Health Division  
ICIPE, Duduville (PO), PO Box. 30772 -  
00100, Kasarani  
NAIROBI 30772 -0010  
KENYA  
Telephone (Work): 254-20-8632000 (EXT  
E-Mail: jnyasani@icipe.org

**O'DONNELL, Dr Cheryle**

Entomologist  
USDA/APHIS/PPQ  
9 North Grand Avenue  
Room 120  
NOGALES ARIZONA 85621  
USA  
Telephone (Work): 520-285-5406  
Fax: 520-287-6841  
E-Mail: caodonnell50@q.com

**OLSON, Dr Stephen**

Professor Horticultural Sciences  
University of Florida  
North Florida Research and Education Centre  
155 Research Road  
QUINCY FLORIDA 32351  
Telephone (Work): 011-850-875-7144  
Fax: 011-850-875-7188  
E-Mail: smolson@ufl.edu

**PAGE, Jessica**

IPM Technologies Pty Ltd  
P O Box 560  
HURSTBRIDGE VIC 3099  
AUSTRALIA  
E-Mail: jpage.ipm@gmail.com

**PAINI, Dr Dean**

Research Scientist  
CSIRO -Entomology  
ACTON ACT  
Telephone (Work): 61 2 6246 4178  
E-Mail: Dean.Paini@csiro.au

**PAPPU, Dr Hanu**

Associate Professor and Chair  
Washington State University  
Department of Plant Pathology  
PO Box 646430  
PULLMAN WA 99164  
USA  
Telephone (Work): 5093359752  
Fax: 5093359581  
E-Mail: hrp@wsu.edu

**PARMENTER, Kathy**

QLD Primary Industries and Fisheries  
Dept of Employment, Economic Development &  
Innovation  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
E-Mail: kathleen.parmenter@deedi.qld.gov.au

**PERSLEY, Mr Denis**

Principal Plant Pathologist  
Primary Industries and Fisheries -Queensland  
Plant Pathology Bldg  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
Telephone (Work): 07 3896 9375  
Fax: 07 3896 9533  
E-Mail: denis.persley@deedi.qld.gov.au

**PETERSON, Dr Sophie**

Program Manager  
Plant Health Australia  
5/4 Phipps Close  
DEAKIN ACT 2600  
Telephone (Work): 61 2 6215 7721  
Fax: 61 2 6260 4321  
E-Mail: speterson@phau.com.au

**REITZ, Dr Stuart**

USDA -ARS  
6383 Mahan Drive  
TALLAHASSEE FLORIDA 32308  
USA  
Telephone (Work): 1-850-656-9870  
Fax: 1 850-656-9808  
E-Mail: stuart.reitz@ars.usda.gov

**RESENDE, Prof Renato**

Professor Plant Virology  
University of Brasilia  
Department of Cell Biology  
ICC Sul -UnB  
BRASÃ-LIA -DF FEDERAL DISTRICT 70910-  
900  
BRAZIL  
Telephone (Work): 55-61-33072424  
E-Mail: rresende@unb.br

**RILEY, Prof David**

Professor of Entomology  
University of Georgia  
122 S Entomology Dr  
TIFTON GEORGIA 31793  
USA  
Telephone (Work): 1-229-386-3374  
Fax: 1-229-386-3086  
E-Mail: dgr@uga.edu

**RODONI, Dr Brendan**

Research Scientist  
Victorian Dept of Primary Industries  
PMB 15, Ferntree Gully Delivery Centre  
621 Burwood Highway  
KNOXFIELD VIC 3156  
AUSTRALIA  
Telephone (Work): 61 3 9210 9222  
Fax: 61 3 9800 3521  
E-Mail: brendan.rodani@dpi.vic.gov.au

**ROGERS, Dr Peter**

Research Phytopathologist  
Nunhems USA  
8850 59th Ave NE  
BROOKS OREGON 97305  
USA  
Telephone (Work): 01 503-463-5157  
E-Mail: peter.rogers@nunhems.com

**ROTENBERG, Dr Dorith**

Research Assistant Professor  
Kansas State University  
Department of Plant Pathology  
4024 Throckmorton Plant Sciences Center  
MANHATTAN KANSAS 66506  
Telephone (Work): 1-785-532-1376  
E-Mail: drotenbe@ksu.edu

**RUGMAN-JONES, Dr Paul**

Post-Doctoral Researcher  
University of California, Riverside  
167 Entomolgy Bldg  
RIVERSIDE CALIFORNIA 92521  
Telephone (Work): 951-827-3752  
Fax: 951-827-3086  
E-Mail: paulrj@ucr.edu

**SCHUETZ, Dr Ingeborg**

Martin Luther Universty of Halle and Wittenberg  
Domplatz 4  
HALLE/SAALE 06114  
GERMANY  
Telephone (Work): 49 345 55 26473  
Fax: 49 345 55 27121  
E-Mail: ingeborg.schuetz@zoologie.uni-halle.de

**SCOTT-BROWN, Dr Alison**

Research Entomologist  
Royal Botanic Gardens, Kew  
Jodrell Laboratory  
RBG, Kew  
RICHMOND SURREY TW9 3AB  
UNITED KINGDOM  
Telephone (Work): 44(0)208 332 5394  
E-Mail: a.scott-brown@kew.org

**SENIOR, Dr Lara**

Entomologist  
Queensland Primary Industries and Fisheries  
Gatton Research Station  
Locked Bag 7, Mail Service 437  
GATTON QLD 4343  
AUSTRALIA  
Telephone (Work): 61 7 5466 2222  
Fax: 61 7 5462 3223  
E-Mail: lara.senior@dpi.qld.gov.au

**SEVGAN, Dr Subramanian**

Senior Scientist  
International Centre of Insect Physiology and  
Ecology  
Plant Health Division, International Centre of  
Insect Physio  
Kasarani, Duduville PO  
NAIROBI 30772 -0010  
KENYA  
Telephone (Work): 254 -20 -8632000  
E-Mail: ssubramania@icipe.org

**SHARMA, Prof Jyotsna**

Professor  
Texas Tech University  
253 PS Bldg  
15th and Detroit Ave  
LUBBOCK TEXAS 79409  
USA  
Telephone (Work): 18067422837  
E-Mail: jyotsna.sharma@ttu.edu

**SHARMAN, Mr Murray**

Plant Pathologist (Virology)  
DEEDI -Primary Industries & Fisheries  
Plant Pathology Building  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
Telephone (Work): 61 7 3896 9374  
Fax: 61 7 3896 9533  
E-Mail: murray.sharman@deedi.qld.gov.au

**SIMS, Ms Kelly**

PhD Candidate  
University of Florida  
PO Box 970  
Natural Area Drive  
GAINESVILLE FLORIDA 32611  
USA  
Telephone (Work): 352-392-1901 EXT 202  
Fax: 352-392-0190  
E-Mail: simsk@ufl.edu

**SOFUE, Mr Jun**

Master Student  
Utsunomiya University  
Faculty of Agriculture  
350 Mine  
UTSUNOMIYA TOCHIGI 321-8505  
JAPAN  
Telephone (Work): 81.28.649.5451  
Fax: 81.28.649.5451  
E-Mail: ma098122@cc.utsunomiya-u.ac.jp

**SPARKS, Dr Alton**

Extension Entomologist  
University of Georgia  
P.O. Box 748  
TIFTON GEORGIA 31794  
USA  
Telephone (Work): 1-229-386-3424  
E-Mail: asparks@uga.edu

**SPOONER-HART, Prof Robert**

University of Western Sydney  
Locked Bag 1797  
PENRITH SOUTH DC NSW 1797  
AUSTRALIA  
Telephone (Work): 61 2 4570 1429  
Fax: 61 2 4570 1103  
E-Mail: r.spooner-hart@uws.edu.au

**SRINIVASAN, Dr Rajagopalbabu**

Assistant Professor  
University of Georgia  
122 S Entomology Drive  
TIFTON GEORGIA 31794  
USA  
Telephone (Work): 1-229-386-3199  
Fax: 1-229-386-3086  
E-Mail: babusri@uga.edu

**SUNDARAJ, Ms Sivamani**

PhD Student  
Tamil Nadu Agricultural University  
Department of Plant Molecular Biology  
COIMBATORE TAMIL NADU 641003  
INDIA  
Telephone (Work): 0011914226611453  
E-Mail: sivamani\_tnau@yahoo.co.in

**TANG, Mr Joe**  
Scientist  
Biosecurity New Zealand  
231 Morrin Road  
St Johns  
AUCKLAND 1140  
NEW ZEALAND  
Telephone (Work): 64-9-9095722  
Fax: 64-9-9095739  
E-Mail: joe.tang@maf.govt.nz

**TAYLOR, Matt**  
Director  
The University of Queensland  
Centre for Biological Information Technology  
Level 6  
Hartley Teakle Building  
ST LUCIA QLD 4072  
AUSTRALIA  
Telephone (Work): 07 3365 1851  
Fax: 07 3365 1855  
E-Mail: m.taylor@cbit.uq.edu.au

**TERRY, Dr Irene**  
Associate Research Professor  
University of Utah  
Department of Biology  
257 South 1400 East  
SALT LAKE CITY UTAH 84112  
USA  
Telephone (Work): 1-801-585-3139  
Fax: 1-801-581-4668  
E-Mail: irene.terry@utah.edu

**TEULON, Dr David**  
Portfolio Manager  
NZ Institute for Plant & Food Research  
Plant & Food Research  
Private Bag 4704  
CHRISTCHURCH  
NEW ZEALAND  
Telephone (Work): 64 3 325 6400  
Fax: 64 3 325 2074  
E-Mail: teulond@crop.cri.nz

**THOMAS, Dr John**  
Principal Plant Pathologist  
Queensland Primary Industries & Fisheries, DEEDI  
Plant Pathology Building  
80 Meiers Road  
INDOOROOPILLY QLD 4068  
AUSTRALIA  
Telephone (Work): 61 7 3896 9371  
Fax: 61 7 3896 9533  
E-Mail: john.thomas@deedi.qld.gov.au

**TREE, Mrs Desley**  
Entomology Collection Manager  
Department of Primary Industries and Fisheries -  
Queensland  
Entomology Building  
80 Meiers Rd  
INDOOROOPILLY QLD 4068  
Telephone (Work): 61 7 3896 9684  
Fax: 61 7 3896 9446  
E-Mail: desley.tree@dpi.qld.gov.au

**TSAI, Mr Yi-Sheng**  
Department of Entomology  
National Chung Hsing University  
250, Kuo Kuang Rd  
TAICHUNG 402  
TAIWAN  
Telephone (Work): 886 4 22840361#520  
E-Mail: satenhank@msn.com

**TURINA, Dr Massimo**  
Researcher  
Istituto Di Virologia Vegetale -CNR Torino  
TORINO 10128  
ITALY  
Telephone (Work): 39 011 3977 923  
E-Mail: m.turina@ivv.cnr.it

**TUTTLEBY, Mr Richard**  
Product Manager -Solanaceous Crops  
Syngenta Seeds Pty Ltd  
Locked Bag 1335  
DANDENONG SOUTH VIC 3164  
AUSTRALIA  
Telephone (Work): 03 9706 3033  
Fax: 03 9706 3182  
E-Mail: richard.tuttleby@syngenta.com

**ULLMAN, Prof Diane**  
Professor of Entomology  
University of California -Davis  
One Shields Avenue  
DAVIS CALIFORNIA 95616  
USA  
Telephone (Work): 530-752-7150  
Fax: 530-752-9369  
E-Mail: deullman@ucdavis.edu

**VERGHESE, Dr Abraham**  
Principal Scientist  
Indian Institute of Horticultural Research  
Iihr  
Hesserghatta Lake PO  
BANGALORE KARNATAKA 560089  
INDIA  
Telephone (Work): 091-80-28466190  
Fax: 091-80-28466291  
E-Mail: abraham.avergis@gmail.com

**WATERHOUSE, Peter**

Telephone (Work): 02 6246 5365  
E-Mail: Peter.Waterhouse@usyd.edu.au

**WATSON, Mr Andrew**

Plant Pathologist  
Department of Primary Industries New South  
Wales  
Yanco Agricultural Institute  
PMB  
YANCO NSW 2703  
AUSTRALIA  
Telephone (Work): 02 6951 2647  
Fax: 02 6951 2719  
E-Mail: andrew.watson@dpi.nsw.gov.au

**WHEELER, Dr Gregory**

Research Entomologist  
USDA/ARS  
3225 College Ave  
FT LAUDERDALE FLORIDA 33314  
USA  
Telephone (Work): 1 954-475-6546  
Fax: 1 954-476-9169  
E-Mail: greg.wheeler@ars.usda.gov

**WHITFIELD, Prof Anna**

Assistant Professor  
Kansas State University  
1405 Pierre St.  
MANHATTAN KS 66502  
U.S.  
Telephone (Work): 785-532-3364  
Fax: 1 785-532-5692  
E-Mail: aewtospo@ksu.edu

**WILSON, A/Prof Calum**

A/Prof in Plant Pathology & Research /Leader  
(Vegetable Centre)  
University of Tasmania  
Tasmanian Institute of Agricultural Research  
New Town Research Laboratories  
13 St Johns Avenue  
NEW TOWN TAS 7008  
AUSTRALIA  
Telephone (Work): 03 6233 6841  
Fax: (03) 6233 6145  
E-Mail: Calum.Wilson@dpiw.tas.gov.au

**YEH, Prof Wen-Bin**

Department of Entomology  
National Chung Hsing University  
250 Kuo-Kuang Rd  
TAICHUNG 402  
TAIWAN  
Telephone (Work): 8864-22840799  
E-Mail: wbyeh@nchu.edu.tw

**ZAMAN, Dr Wahiduz**

Plant Breeder  
RijkZwaan (Australia) Pty Ltd  
The University of Queensland  
PO Box 1132  
GATTON QLD QLD 4343  
AUSTRALIA  
Telephone (Work): (07) 5466 2230  
Fax: (07) 5466 2230  
E-Mail: wzaman@rijkszwaan.com.au

**ZHANG, Dr Xiaobin**

Institute of Rural Development and Information  
AheJiang Academy of Agricultural  
198 Shiqiao Road  
HANGZHOU ZHEJIANG 310021  
CHINA  
Telephone (Work): 86-571-86404255  
E-Mail: riceipml@zju.edu.cn

**ZHANG, Dr Zhijun**

Institute of Plant Protection and Microbiology  
Zhejiang Academy of Agricultural  
No 198 RD Shiqiao  
HANGZHOU ZHEJIANG PROVINCE 310021  
P.R. CHINA  
Telephone (Work): 86-571-86400445  
Fax: 86-571-86400445  
E-Mail: zhijunzhanglw@hotmail.com

**ZHANG, Prof Zhong-Kai**

Director  
Biotechnology and Genetic Germplasm Institute  
Yunnan Academy of Agricultural Sciences  
Xueyun Road 9#  
Wuhua District  
KUNMING YUNNAN PROVINCE 650223  
P.R.CHINA  
Telephone (Work): 86-8715183204  
Fax: 86-8715160084  
E-Mail: zhongkai99@sina.com

**ZHENG, Prof Kefeng**

Institute of Rural Development and Information  
ZheJiang Academy of Agricultural Sciences  
198 Shiqiao Road  
HANGZHOU ZHEJIANG 310021  
CHINA  
Telephone (Work): 86-571-86404181  
E-Mail: zhengkf@sohu.com

