

Weed Management in a Changing World

The Sebel Cairns, Queensland, Australia
26-29 September 2011



Registration Brochure & Program

Invitation to Attend

The Organising Committee and the Asian-Pacific Weed Science Society (APWSS) are proud to announce the **23rd Asian-Pacific Weed Science Society Conference** which will be held at The Sebel Cairns from 26 – 29 September 2011.

The theme for APWSS 2011 is **"Weed Management in a Changing World"**. The Conference is packed with innovative scientific ideas and it will include 100 oral presentations, 50 poster presentations and 6 keynote speakers.

Be inspired by keynote speakers who are international experts in their fields, including Professor Alan McHughen, University of California Riverside, USA and Dr NT Yaduraju, National Coordinator, National Agricultural Innovation Project, Indian Agricultural Research Institute, Delhi, India.

The Conference will provide a forum in which results can be shared, information disseminated and international cooperation encouraged. See weed management in practice and learn about new ideas from papers focusing on:

- Threats and risks in the Asian-Pacific region
- Sustainable weed management in the Asian-Pacific region
- Weed solutions for the Asian-Pacific region
- Challenges for weed management

Interactive field trips will be organised to demonstrate weed issues affecting North Queensland and activities undertaken to reduce their impact.

There will be ample time available for networking and discussions during breaks in the program and through a social program incorporating a Welcome Reception, Conference Dinner and Field Trips.

We encourage you to attend the **23rd Asian-Pacific Weed Science Society Conference** as we believe that this Conference will provide a wonderful opportunity for scientific exchange. APWSS 2011 is the place to make valuable research and industry connections, the place to be empowered and inspired by the knowledge shared, and the place that will move you and your organisation into the future.

We look forward to seeing you there.

Kind regards

Steve Adkins

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Keynote and Invited Speakers:

KEYNOTE SPEAKERS		
Alan McHughen		Impact of Herbicide Tolerant Crops on Weed Management in the Asia Pacific Region
Hisashi Kato-Noguchi		Rice Allelopathy and Momilactone
Joe DiTomaso		Common Invasive Plant Threats and Management Approaches in the Asia-Pacific Region and United States
Kim Ku (Kil Ung Kim)		Utilization of Weeds as Biological Resources and as Management Tools
NT Yaduraju		Weed Management Perspectives for India in the Changing Agriculture Scenario in the Country
Rensen Zeng		Multiple Functions of Allelochemicals in Ecosystems
INVITED SPEAKERS		
Anis Rahman		Solving Problems the Asian-Pacific Way: Past and the Future
Carol Mallory-Smith		Herbicide-Resistant Weeds in GM Crops: Lessons from the North American Experience
Gary Macdonald		The Development and Implications of Herbicide Resistance in Aquatic Plant Management
Jeff Mullahey		Biology, Ecology, and Control of Tropical Soda Apple (<i>Solanum viarum</i>)
Ramanathan Kathiresan		Utility Tag, Farming Elements and ITK for Sustainable Management of Weeds in Changing Climate

Poster Presentations:

THEME: THREATS AND RISKS		
Simon Brooks	Biosecurity Risks	Sources of Soil Seed Bank Seed Longevity Information for Tropical Weed Eradication Target Species
Apaitia Macanawai	Weed Spread	Some Environmental Influence Upon Reproductive Behaviour of <i>Mikania micrantha</i> in Viti Levu Fiji
Chinnusamy Chinnagounder	Weed Spread	Incidence of Quarantine Invasive Weed <i>Solanum carolinense</i> L. in Different Ecosystems of Tamil Nadu
Christine Sabine Sheppard	Weed Spread	Potential Distribution and Invasiveness of Three Recently Naturalised Exotic Plants under Climate Change in New Zealand
Thi Lan Thi Nguyen	Weed Spread	The Distribution of The Exotic Weed <i>Mimosa pigra</i> on the Dong Nai River Basin, Vietnam
Tohru Tominaga	Weed Spread	Range Expansion and Hybridization between Two Ecotypes of Cogongrass (<i>Imperata cylindrica</i> (L.) Beauv.) in Japan
THEME: SUSTAINABLE WEED MANAGEMENT		
Asad Shabbir	Biocontrol	Management of Parthenium Weed (<i>Parthenium hysterophorus</i> L.) in Australia: Complementing Plant Suppression with Biological Control
Hanwen Wu	Chemical Control	Impacts of Sowing Practices on Wheat Injuries Caused by Soil Applied Herbicides
In Taek Hwang	Chemical Control	Potential Herbicide Target, 7-Keto-8-Aminopelagonic Acid Synthase
Shyama Weerakoon	Chemical Control	Evaluation of Pre- and Post- Emergence Herbicide Tolerance in Rice
Singh Ramesh Kumar	Chemical Control	Optimizing Application Rate of Carfentrazone-Ethyl and Sulfosulfuron (Premix) And of Surfactant for Control of G Weed Control in Wheat (<i>Triticum aestivum</i>)
Abdul Shukor Juraimi	Integrated Control Methods	Seed Priming Influence on Weed Suppression in Aerobic Rice
Anil Kumar	Integrated Control Methods	Integrated Weed Management Strategies in Gladiolus and Marigold Ornamentals in Irrigated Himalayan Foot-Hills of Jammu And Kashmir, India
Chinnusamy Chinnagounder	Integrated Control Methods	Biological Quantification and Integrated Management of <i>Striga asiatica</i> (L.) in Sugarcane (<i>Saccharum officinarum</i> .L) in Tamil Nadu
Shigenori Okawa	Integrated Control Methods	Risk Assessment of Problematic Weeds Outbreak at Paddy Field in Miyagi Prefecture
Lee Sang-Chul	Integrated Control Methods	Effect of Selected Chemical Weed Control Combined with Wood and Rice Vinegar Against Barnyard Grass (<i>Echinochloa crus-galli</i>)
Ryuichi Sago	Integrated Control Methods	Effect of Weed Management Method on the Change in Vegetation and the Concentration of Soil Nutrients throughout Soil Layers in Fallow Land Areas
Alexander Menegat	Weed Biology & Ecology	Weed Species Abundance in North China Plain Winter Wheat Production Systems
Ali Majrashi	Weed Biology & Ecology	Allometry and Growth Patterns of <i>Scipus grossus</i> L. on Peat
Apaitia Macanawai	Weed Biology & Ecology	Vegetative Growth and Development of <i>Mikania micrantha</i> in Taro and Cassava Production in Viti Levu Fiji
Ken-Ichi Sudo	Weed Biology & Ecology	A Monitoring of 30 Years for Weed Species in Paddy Fields of Hyogo Prefecture, Japan
Nam-Jin Chung	Weed Biology & Ecology	Comparative Study on Wintering Characteristics between Weedy Rice and Cultivated Rice
Nam-Jin Chung	Weed Biology & Ecology	Physio-Biochemical Characterization of Hypoxia-Tolerant Weedy Rice Screened by Direct-Seeding on Flooded Soil During Seedling Establishment Stage
Razia Sultana Shaik	Weed Biology & Ecology	A Comparative Analysis between Two Invasive Weeds, Camel Melon (<i>Citrullus lanatus</i> (Thunb.) Matsum. & Nakai var. Lanatus) and Prickly Paddy Melon (<i>Cucumis Myriocarpus</i> L.), in Inland Australia
Thi Lan Thi Nguyen	Weed Biology & Ecology	The Parthenium Weed (<i>Parthenium hysterophorus</i> L.) in Vietnam
Toshi Yoshioka	Weed Biology & Ecology	Regulation of Life Histories of Facultative Winter Annuals by Pre-Germination Seed Vernalization
Katie Patane	Weed Biology & Ecology	Dispersal of Pond Apple (<i>Annona glabra</i>) by Rodents, Agile Wallabies and Flying Foxes
THEME: WEED SOLUTIONS		
Stephen Setter	Innovative Delivery Mechanisms	Pond apple (<i>Annona glabra</i>) – Investigating Novel Mechanical Control Options
Chinnusamy Chinnagounder	Management of Aquatic Weeds	Biological Quantification and Post-emergence Herbicidal Management of Water Hyacinth (<i>Eichhornia crassipes</i>) in the Water Bodies of Southern India
Ken-Ichi Yamaguchi	Management of Aquatic Weeds	Survey of Invasive Aquatic Weeds in Southern Kyushu, Japan, and their Response to Environmental Parameters
THEME: CHALLENGES FOR WEED MANAGEMENT		
Chamroon Laosinwattana	Bioherbicides & Allelopathy	An Organic Herbicide of Chinese Rice Flower (<i>Aglaiia Odorata</i> Lour.) for Controlling Maize (<i>Zea Mays</i> L.) Weeds
Montinee Teerarak	Bioherbicides & Allelopathy	Allelopathic Activities of Jasminum Officinale : Inhibition Effect on Germination, Water Uptake and β -Amylase Activity Induction of <i>Echinochloa crus-galli</i>
Nozomi YAMAMURA	Bioherbicides & Allelopathy	Distribution and Phytotoxic Activity of Allelochemical(S) Released from Itchgrass in Soil
Patchamee Charoenying	Bioherbicides & Allelopathy	Allelopathic Potential of <i>Phormidium angustissimum</i>
Wirat Phuwiwat	Bioherbicides & Allelopathy	Inhibitory Effects of <i>Melia azedarach</i> L. Leaf Extracts on Two Weed Seeds
Yoshihumi Saito	Bioherbicides & Allelopathy	Allelopathic Activity in the Fern, Dryopteris Crassirhizoma Nakai
Amalia Belgeri	Bioherbicides & Allelopathy	Screening Parthenium Weed (<i>Parthenium hysterophorus</i> L.) Seedlings for their Allelopathic Potential
Amalia Belgeri	Management of Herbicide Resistance	Glyphosate Susceptibility of Annual Ryegrass (<i>Lolium multiflorum</i> L.) Populations in No-Tillage Systems in Uruguay
Ashkan Bahmani Fathabadi	Management of Herbicide Resistance	Herbicide Resistance in Annual Ryegrass (<i>Lolium rigidum</i> Gaud) Populations in Wheat Fields of Firoozabad
In Yong Lee	Management of Herbicide Resistance	Integrated Weed Management of Accase and ALS Herbicides- Resistant <i>Echinochlor crus-galli</i>
Kee Woong Park	Weed Management in Herbicide-Tolerant Crops	Occurrence of Genetically Modified Maize and its Impact on Natural Environment in The Republic of Korea
Azmi Bin Man	Weed Management in Resistant Crops	Control of Weedy Rice in Direct-Seeded Rice Using the Clearfield Production System in Malaysia

A Selection of Oral Presentations:

THEME: THREATS AND RISKS		
David Low	Biosecurity	An Ecosystemic Approach to Weed Biosecurity
Earl Sparkes	Biosecurity Risks	Biosecurity Queensland's Emergency Management Unit – Biosecurity Preparedness for Queensland's Primary Industries and Environment
Trevor James	Biosecurity Risks	Weed Biosecurity Breach through Coco Peat Imports
Ikramullah Khan	Weed Spread	Weed Seed Spread by Vehicles: a Case Study from Southeast Queensland, Australia
Sheree Christian	Weed Spread	Assessing the Feasibility for Local Elimination of <i>Passiflora Apetala</i> in New Zealand
Thi Lan Thi Nguyen	Weed Spread	Seedling Growth of Parthenium Weed (<i>Parthenium hysterophorus</i> L.) and Climate Change
Abul Hashem	Weed Spread incl Climate Change	Management of Emerging Weeds within Western Australia Wheat Belt
Asad Shabbir	Weed Spread incl Impacts of Climate Change	Spread of Parthenium Weed and Its Biological Control Agent in The Punjab, Pakistan
Nancy Shackelford	Weed Spread incl Impacts of Climate Change	Modeling Invasion by <i>Allocausarina huegeliana</i> in Kwongan Heathland and Its Management Implications
THEME: SUSTAINABLE WEED MANAGEMENT		
Michael Day	Biocontrol	The Distribution and Socio-Economic Impacts of <i>Mikania micrantha</i> kunth (<i>Asteraceae</i>) in Papua New Guinea and Fiji and Prospects for its Biocontrol
Rachel McFadyen	Biocontrol	Benefits from Biological Control of Weeds in Australia
Abhijit Bose	Chemical Control	Weed Management with Excel Mera 71, a New Formulation of Glyphosate in India
Hajime Ikeda	Chemical Control	Propyrisulfuron, a New Sulfonylurea Herbicide for Rice
Jason Ferrel	Chemical Control	Herbicidal Control of <i>Lantana camara</i>
Jyri Kaapro	Chemical Control	Indaziflam – A New Herbicide for Pre-Emergent Control of Weeds in Turf, Forestry, Industrial Vegetation Management and Ornamentals
Muhammad Salman Qudus	Chemical Control	Effect of Formasulfuron and Isoxadifen-Ethyl In Combination with Urea for Weed Control in Maize
Ortrud Jaeck	Chemical Control	Introduction of a Nondestructive Method for the Investigation of Herbicide Efficacy in Greenhouse Bioassays Based on Image Analysis
Rajvir Sharma	Chemical Control	Weed Management in Onion (<i>Allium cepa</i> L.)
Simon Brooks	Chemical Control	Testing the Efficacy of Low Volume Herbicide Applications on <i>Chromolaena odorata</i>
Singh Ramesh Kumar	Chemical Control	Competitive Ability of Wheat Cultivars Against Complex Weed Flora in Zero-Till Planting
Sohei Asakura	Chemical Control	Biological Properties of a Novel Paddy Herbicide "Pyrimisulfan"
Adusumilli N. Rao	Integrated Control Methods	Possible Approaches for Ecological Weed Management in Direct-Seeded Rice in A Changing World
Amalia Belgeri	Integrated Control Methods	Effect of Parthenium Weed (<i>Parthenium hysterophorus</i> L.) on Grazed Plant Communities During a Period of Concerted Management
Chidambaram Sathappan	Integrated Control Methods	Farming Elements for Sustainable Management of Weeds in Rainfed Vegetables
Chinnusamy Chinnagounder	Integrated Control Methods	Long Term Herbicidal Weed Management Integrated with Nitrogen Nutrient in Transplanted Rice-Rice Cropping System of Southern Peninsular India
Deirdre Lemerle	Integrated Control Methods	Canola (<i>Brassica napus</i>) Competition for Weed Management
Michael Widderick	Integrated Control Methods	Flaxleaf Fleabane (<i>Conyza bonariensis</i>) – Strategic Solutions Using Best Management Practice
Srinivasan Rameshkumar	Integrated Control Methods	Integrated Weed Management in Flower Crops Involving Goat Grazing and Polyethylene Mulching
Alexander Menegat	Weed Biology & Ecology	In Situ Chlorophyll Fluorescence Measurements as a Method for Detection of Resistance to Soil Active Herbicides in Most Abundant Grass Weeds in the North China Plain
Katherine Tozer	Weed Biology & Ecology	Impact of Shading on Growth and Panicle Production of <i>Vulpia</i> (<i>Vulpia</i> Spp.)
Sangita Shrestha	Weed Biology & Ecology	Molecular Marker Tools for the Integrated Management of Weedy <i>Sporobolus</i> Species in Australia
Xiangju Li	Weed Biology & Ecology	Influence of Environmental Factors on Seed Germination and Seedling Emergence of Yellowtop (<i>Flaveria bidentis</i>)
Xiao Cheng Zhu	Weed Biology & Ecology	Identification of Silverleaf Nightshade Using Microsatellite Markers and Microstructure
Zahid Hanif	Weed Biology & Ecology	Characterization of the Reproductive Behaviour and Invasive Potential of Parthenium Weed in Australia
THEME: WEED SOLUTIONS		
Gary Dorr	Innovative Delivery Mechanisms	Herbicides and Spray Droplet-Canopy Interactions: A Modelling Approach
Vikki Osten	Innovative Delivery Mechanisms	Weedseeker Technology Can Be Used Effectively in Wide-Row Crops in Dryland Broadacre Farming Systems
Ken-Ichi Yamaguchi	Management of Aquatic Weeds	Evaluation of Indigenous Fungi in Japan for their Herbicidal Activity Against Japanese Knotweed (<i>F. Japonica</i>) and Giant Knotweed (<i>F. Sachalinensis</i>)
Nimal Chandrasena	Management of Aquatic Weeds	Can We Manage Alligator Weed Better in Australia? Lessons from Herbicide Trials
Peter Harper	Management of Aquatic Weeds	Developing Hydrogel for Selective Management of Submerged Aquatic Weeds
Pei-Min Pu	Utilization of Weeds	Water Purification and Resource Utilization Values of Water Hyacinth and other Species
Apaitia Macanawai	Weed Management Across Landscape	Impact of <i>Mikania micrantha</i> kunth. Ex. H.B.K. on Crop Production System in Viti Levu Fiji – Farmers Perspective
THEME: CHALLENGES FOR WEED MANAGEMENT		
Cecilia Ines Ono Morikawa	Bioherbicides & Allelopathy	Evaluation of Allelopathic Activity from Peruvian Plant Species by Sandwich Method
Inayat Ullah Awan	Bioherbicides & Allelopathy	Application of Bio-Herbicide Alternatives for Chemical Weed Control in Rice Production
Prof. L Leslie Weston	Bioherbicides & Allelopathy	Discovery of Novel Root Chemistry Produced by Paterson's Curse (<i>Echium plantagineum</i>) and Potential Impacts upon Invasion Success
Sally Allan	Bioherbicides & Allelopathy	Herbicide Potential of Some Medicinal Plants
Yoshiharu Fujii	Bioherbicides & Allelopathy	Isolation and Identification of Innovative Allelochemicals and Utilization of Allelopathic Cover Plants for Sustainable Agriculture
Saiful Hamdani	Herbicide Resistance	Resistance of Wild Oat (<i>Avena</i> spp.) Populations to ACCase-inhibiting Herbicides and the Molecular Basis of Resistance
David Thornby	Management of Herbicide Resistance	A Risk Assessment Tool for Glyphosate Resistance in Sub-tropical Australian Farming Systems
Michael Renton	Management of Herbicide Resistance	Simulating the Effects of Genetics, Management and Weed Biology on the Evolution of Herbicide Resistance with Perth
Steve Walker	Management of Herbicide Resistance	Glyphosate Resistance – the Impacts and Risks for Crop Production in Sub-Tropical Region of Australia
Carol Mallory Mallory-Smith	Weed Management in Herbicide-Tolerant Crops	Herbicide-Resistant Weeds in GM Crops: Lessons from the North American Experience
Jeff Werth	Weed Management in Herbicide-Tolerant Crops	A Decade of Glyphosate-Resistant Cotton in Australia: What Has Changed?

Field Trips

Field Trip 1:	Weedy tropics – Managing weeds within rainforests, grazing and water systems
Field Trip 2:	Eating up the tropics – Managing tropical agricultural weeds
Field Trip 3:	Whirlwind tour – The dynamics of cyclones and weeds, with a snappy end

Social Program

Welcome Reception

Monday, 26 September 2011, 6:00pm – 8:00pm
Daintree's Pool Deck, The Sebel Cairns

After the Conference opening, kick off your experience at APWSS 2011 at the Welcome reception. Enjoy networking with your colleagues – catch up with old friends and make new ones – and get ready to experience a most engaging and exciting Conference.

One ticket is included in all full registration fees. Additional tickets can be purchased for \$60.00 per person.

Conference Dinner

Wednesday, 28 September 2011, 7:00pm – 11:00pm
Blue Water Room, The Sebel Cairns

This event promises to be an exciting night filled with good food, drinks and fantastic entertainment. The Conference dinner is a must for all Conference delegates.

The Conference dinner is not included in any registration types. Tickets can be purchased for \$115.00 per person.

Registration

Registration Rates

Registration Rate	Full	Student	Day
Earlybird Registration (registered and paid on or before 22 July 2011)	AU\$700	AU\$400	\$400
Standard Registration (registered and paid on or after 23 July 2011)	AU\$800	AU\$500	\$500

Registration Inclusions

Full and Student Registrations

- Entry to the Conference opening and all Conference sessions (Monday, Tuesday and Thursday)
- Arrival tea and coffee, morning tea, lunch and afternoon tea daily
- One ticket to the Welcome Reception (Monday, 26 September 2011)
- One ticket to a Field Trip (Wednesday, 28 September 2011)
- Access to the trade exhibition
- Conference satchel and materials
- Conference Proceedings

Day Registrations

- Entry to all Conference sessions held on registered day
- Arrival tea and coffee, morning tea, lunch and afternoon tea on registered day
- Access to the trade exhibition on registered day
- Conference satchel and materials
- Conference Proceedings

Please refer to the Website for full terms and conditions

Accommodation & Travel

Special accommodation rates have been negotiated at various hotels in Cairns, all within walking or easy transport distance from the The Sebel Cairns. These rates are only available when booking through the Conference Office. Accommodation is subject to availability and we strongly urge you book your accommodation as soon as possible.

The Sebel Cairns

17 Abbott Street, Cairns QLD 4870 Australia

City/Mountain View Room AU\$220.00

Park Regis City Quays

4-6 Lake Street, Cairns QLD

Hotel Room AU\$134.00

One Bedroom AU\$155.00

Two Bedroom AU\$229.00

Park Regis Piermonde

2-4 Lake Street, Cairns QLD

Two Bedroom AU\$289.00

Three Bedroom AU\$356.00

Please refer to the Conference website for more information on air travel, insurance, and cancellation terms and conditions.

If you require further options, please contact the Conference Office at apwss@eventcorp.com.au.

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There are a limited number of opportunities still available for your organisation to sponsor APWSS 2011.

Sponsors and exhibitors will be provided with valuable opportunities to:

- Network with industry purchasers and policy makers
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- Demonstrate involvement, commitment and support of the industry
- Launch new products and services to an audience empowered with decision-making authority

If your organisation would like to benefit from these opportunities please contact the Conference Office on apwss@eventcorp.com.au or phone + 61 7 3334 4400.

Conference Office

If you have any queries regarding the Conference, registration, sponsorship or any other details please contact the Conference Office:



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