

Soil Science

JOINT SSA AND NZSSS SOIL SCIENCE CONFERENCE
Soil solutions for diverse landscapes



CALL FOR PAPERS

WREST POINT HOTEL AND CONVENTION CENTRE, HOBART, TASMANIA

2 - 7 DECEMBER 2012

Invitation

Soil Science Australia and the New Zealand Society of Soil Science invite you to submit papers for presentation at the Joint SSA and NZSSS Soil Science Conference. This is the 5th Joint SSA and NZSSS Soil Science Conference, and the first to be held in Tasmania.

Over 300 delegates from throughout Australasia are expected to attend, including researchers, analysts, educationists, advisors, extension agents, land managers and policymakers from national, state and local government, universities and the private sector.

The Conference theme, *Soil Solutions for Diverse Landscapes*, reflects the breadth of soils, landforms and climate across the region, and the corresponding breadth of land use; from agriculture to forestry, conservation, recreation and urban use. There really is something in this Conference for everyone concerned with understanding and managing soils.

Program Overview

Sun 2 Dec 2012	Exhibition set-up / Registration / Welcome BBQ
Mon 3 Dec 2012	Opening session / Exhibition / Sessions
Tue 4 Dec 2012	Sessions / Exhibition
Wed 5 Dec 2012	Field Trips
Thur 6 Dec 2012	Sessions / Exhibition / Conference dinner
Fri 7 Dec 2012	Closing Sessions (half day)

Conference Themes

The themes for the Conference will focus on:

1. Soil philosophy, soil education and the future of soil
2. Soil carbon and climate change
3. Pedology, soil stratigraphy and Quaternary landscape history
4. New techniques in soil spatial analysis
5. Soils and infrastructure developments
6. Soil fertility and soil contaminants
7. The living soil
8. Soil and land degradation
9. The physical soil
10. Forensic soil science

The program will also include a series of technical workshops including:

- Valuation of natural capital and ecosystem services (NZSSS)
- Soil policy, legal and professional standards and the CPSS scheme
- Soil water and water balance modelling
- Soil description competition or workshop.

Important Dates

Papers due	18 May 2012
Acceptance of papers emailed	25 June 2012
Provisional program available	2 July 2012
Early bird registration closes	31 August 2012

Conference Hosts



Submissions

Authors are invited to submit **either** a 250-word abstract or a four-page paper for oral and poster presentations (see below). Only one document per presentation is required. All submissions which fit within the general themes of the conference will be considered. Submissions are due by **18 May 2012** and are to be submitted electronically via the Conference website, Soil Science 2012 Online Portal. If you have any problems with the submission process, please contact Conference Design for assistance.

Papers can be submitted as **either** 250-word abstracts or four-page papers:

- **250-word abstracts** – this option is open to all authors, but is particularly aimed at delegates working in non-academic institutions and the broader soil science community. These papers will be assessed by the Conference Editorial Committee and all accepted abstracts will be published electronically in the Conference proceedings provided to delegates and online, following the conference. A Word template is provided on the website for the submission of 250-word abstracts.
- **Four-page papers** – this option is suited to delegates who wish to publish and gain credit for a refereed conference paper, which is an increasing requirement of academic institutions. These four-page papers will be externally refereed in order to meet the requirements of an F1 refereed conference paper as specified by the Department of Education Science and Training (DEST). All accepted four-page papers will be published electronically in the conference proceedings provided to delegates and online, following the conference. A Word template incorporating the Formatting Guidelines is provided on the website for the submission of four-page papers.

Conference Secretariat

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Presentation Types

While you will be asked to indicate your preferred presentation type when submitting your paper, the program committee may request an alternative type be considered. The program committee will allocate the type of presentation, taking into account the preference of authors and the balance of the program.

Oral Papers

It is anticipated that oral papers will be allocated 15 minutes for presentation, plus 3 minutes for question time.

Presented Posters

Presented posters will be displayed for the duration of the Conference. Each poster will be allocated a panel and the poster must not exceed A0 portrait size. During a formal session it is anticipated that authors will be given a 3-minute presentation showing a maximum of two PowerPoint slides (one of which can be a title slide). Presenters will also be asked to attend their poster during a poster viewing session to discuss the poster with other delegates.

Static Posters

Static posters will be displayed for the duration of the Conference. Each poster will be allocated a panel and the poster must not exceed A0 portrait size. There will not be a formal presentation of static posters, but authors will be asked to attend their poster during a designated poster viewing session to discuss the poster with other delegates.

Conference Committee

Dr Richard Doyle, SAS, TIA, University of Tasmania (Convenor)

Dr Brent Clothier, President of NZSSS

Dr Bill Cotching, TIA, University of Tasmania
(Pre conference field trip)

Dr Paul Adams, Forestry Tasmania
(Intra-conference field trips, sponsorship, committee)

Dr John Paul Cumming, Geo-Environmental Solutions
(Intra-conference field trips, sponsorship, committee)

Dr Peter McIntosh, Tasmanian Forest Practices Authority
(Intra-conference field trips)

Mr Marcus Hardie, TIA, University of Tasmania
(Intra-conference field trips)

Dr Philip Smethurst, CSIRO (Intra-conference field trips)

Dr Lucy Burkitt, TIA, University of Tasmania
(Proceedings editor)

Dr Leigh Sparrow, TIA, University of Tasmania
(Proceedings editor, sponsorship)

Mr Sam Rees, Macquarie Franklin (Secretary)

Lunch & Exhibition

Boardwalk Gallery

Education Workshop and Reporting Session - PICSE Teachers PD

Room TBC

	Soil Carbon and Climate Change (Sequestration - Accounting)	Soil Fertility and Soil Contaminants (Phosphorous)	Soil and Land Degradation (13A)	The Living Soil
	Plenary Hall	Tasman Room A	Tasman Room B & C	Wellington Room 2
ORAL PRESENTATIONS				
1350 - 1405	Variations in the mass of carbon in soil according to core diameter and carbon density calculation; a simple but important step? <i>Mrs Susan Orgill *, Dr Jason Condon, Dr Mark Conyers, Dr Brian Murphy, Dr Richard Greene</i>	A new technique to visualise diffusion of phosphorus and zinc from fertiliser <i>Fien Degryse *, Babasola Ajiboye, Roslyn Baird, Michael McLaughlin</i>	Controlled traffic as the basis of sustainable soil management for intensive vegetable production <i>Mr John McPhee *, Mr Peter Aird, Dr Ross Corkrey</i>	Estimating the relative contributions of edaphic properties and microbial communities to ecosystem functioning <i>Dr Jeff Powell *, Dr Allana Welsh, Prof. Sara Hallin</i>
1405 - 1420	Australian carbon dust emission: a carbon accounting omission? <i>Dr Adrian Chappell *, Dr Nick Webb, Dr Harry Butler, Dr Craig Strong, Prof Grant McTainsh, Dr John Leys</i>	Phosphorus Distribution in Steep North Island Hill Country in New Zealand: Preliminary results <i>Mr Max Arrowsmith *, Dr. Megan Balks, Dr. Doug Edmeades, Dr. Louis Schipper</i>	Impacts of land re-contouring on soil properties in Marlborough, NZ <i>Mr Scott Sharp-Heward *, Dr Peter Almond, Dr Brett Robinson, Dr Samuel Carrick</i>	Carbon and Nitrogen dynamics in grassland soils as affected by adoption of perennial Kikuyu <i>Dr Mark Farrell *, Dr Jonathan Sanderman, Dr Lynne Macdonald</i>
1420 - 1435	Modelling soil carbon sequestration potential in Australian wheat region <i>Dr Enli Wang *, Dr Zhongkui Luo, Dr Brett Bryan, Dr Darren King</i>	Decrease in environmental and agronomic phosphorus concentrations when fertiliser is reduced or omitted from a range of pasture soils with varying phosphorus status <i>Ms Jessica Coad *, Dr Lucy Burkitt, Dr Warwick Dougherty, Dr Leigh Sparrow, Dr Ross Corkery</i>	Roadside Survey Technique to Assess the Trends in Land Use, Land Management and Soil Condition of Geo-located Sites in the Wheatbelt of Western Australia <i>Dr Dan Carter, Mr Justin Laycock *, Mr Ted Griffin, Mr Paul Galloway, Dr Shahab Pathan, Dr Mario D'Antuono</i>	Is Soil Biodiversity Important in Production Lands in New Zealand? <i>Prof Nicholas Dickinson *, A/Prof Brett Robinson</i>
1435 - 1450	Simulation of soil organic carbon across Cox's Creek catchment in northern New South Wales using RothC: a first approximation <i>Mr Senani Karunaratne *, Dr Tom Bishop, Dr Inakwu Odeh, Dr Jeff Baldock</i>	Predicting the changes in environmentally and agronomically significant phosphorus forms following cessation of phosphorus fertiliser applications to grassland <i>Miss Rosalind Dodd *</i>	Understanding salinity manifestations and pathways for better salinity management - experiences from the Jugiong catchment, NSW, Australia <i>Mr Brian Jenkins *, Mr Andrew Wooldridge, Mr Alan Nicholson, Dr Leah Moore, Mr Wayne Cook, Ms Marion Winkler, Mr Rob Muller</i>	Labile P pools in root-zone soils under cereal, legume and oilseed break crops at several sites across southern Australia <i>Dr Ashlea Doolette *, Dr Ann McNeill, Prof. Roger Armstrong, Assoc. Prof. Petra Marschner, Assoc. Prof. Caixian Tang, Dr Chris Guppy</i>
1450 - 1505	Wildfire effects on soil carbon and water repellency: A case study from the Blue Mountains, NSW, Australia <i>Miss Jessica Heath *, Mr Chris Chafer, Dr Thomas Bishop, Dr Floris Van Ogtrop</i>	Discussion	Discussion	<p>Presented Posters 1450 - 1506</p> <p>Click here to view the presentations</p> <p>Discussion</p>