

Sunday 6 September 2015			
All day	Soil Judging competition, Mundijong		
1800–2000	Registration and informal meet and greet		
	Atrium Resort Hotel, Mandurah		
Monday 7	September 2015		
0800-0900	Registration		
0900-0910	Conference opening		
0910-0920	Tim Overheu, President Soil Science Australia Welcome to Country		
	Harry Nannup, Noongar Elder		
0920–0945	Keynote address		
	Major-General Michael Jeffery, AC, AO (Mil), CVO, MC (Retd)		
	National Advocate for Soil Health	Chair: Geoff Anderson	
0945-1015	Keynote address: Trials and Tribulations		
	Trevor Syme , Bolgart farmer and GRDC 2013 Grain Grower of the Year	Chair: Geoff Anderson	
	ion and plant-soil interactions – presented papers		
Sponsored by		Chair: James Easton	
4045 4025	CSBP's whole shoot interpretation method diagnoses macro- and micro-nu	=	
1015–1025	acre crops to improve soil test driven fertiliser decisions in Western Austra Andreas Neuhaus and James Easton	III a	
	Opportunities for more efficient nutrient use		
1025–1035	Peta Richards, David Rogers, Tilwin Westrup, Robert Summers, David Wes	aver and Martin Clark	
1035-1100	Morning tea		
Crop nutrition and plant-soil interactions – presented papers (continued)			
Sponsored by	CSBP	Chair: James Easton	
1100–1110	Regional variations in subsoil cation levels- implications for predicting K re	sponse	
1100 1110	Richard Bell and Qifu Ma		
1110–1120	More profit from crop nutrition II - Use of micronutrients; an evaluation of	f past and current research	
	Ross Brennan, James Easton, Andreas Neuhaus and Richard Bell Soil and plant testing combined with nutrients and alkalinity balance calcu	ulations for fine tuning	
1120–1130	grower's soil amendment decisions	nations for fine turning	
	Geoff Anderson, Martin Harries and Perry Dolling		
1130–1140	Understanding nutrient interactions to improve nutrient use efficiency in V	WA wheat cultivars	
1130 1140	Elliott Duncan, Margaret Roper, Cathryn O'Sullivan and Mark Peoples		
4440 4:==	Biological nitrification capacity in weeds: Wild radish, brome grass, annua	I ryegrass and wild oats	
1140–1150	decrease nitrification rates in their rhizospheres Cathryn O'Sullivan, Kelly Whisson, Karen Treble and Philip Ward		
1150–1200	Potential growth response of kikuyu (Cenchrus clandestinus) to applied ph	osphorous and nitroaen on	
	low PBI soils	,	
	Ron Master, D Rogers and A Ryder		
1200–1210	Lupin species differed in root growth and rhizosphere exudation in respons	se to soil P deficit	
	Yinglong Chen, Kadambot Siddique and Zed Rengel		
1210-1220			
1220–1230		eat crop	
	Deirdre Gleeson , Michael Rose and Terry Rose	· - r	
1230-1330	Lunch		
	Clay application to sands – effects on crop nutrition Richard Bell, David Hall and Stan Sochacki Impact of legume rotations on phosphorus availability in the following who	eat crop	
1230-1330	·		

Monday 7 September 2015 (continued)			
•	Soil health and soil microbiology – presented papers		
	Australian Mineral Fertilisers Chair: Lyn Abbott		
1330–1340	Biological Farming Programs can Enhance the Nutrient Use Efficiency of Phosphorus		
	Paul Storer Soil quality monitoring tools for farmers		
1340–1350	Daniel Murphy, Frances Hoyle, Chris Gazey, Guy Boggs and Pauline Gazey		
1350 1400	Liming can reduce decomposition of soil organic matter in acid soils		
1350–1400	Samantha Grover, Clayton Butterly and Caixian Tang		
4400 4440	Influence of the critical zone architecture on the soil microbiology on a lateritic hill at the UWA farm		
1400–1410	Ridgefield, Western Australia Matthias Leopold and Deirdre Gleeson		
1410–1420	Influence of pH on soil N cycling and microbial functional guilds involved in organic and mineral N		
	transformations		
	Natasha Banning, Lori Phillips, Mark Farrell, Deirdre Gleeson and Daniel Murphy		
1420–1430	Suppression of Fusarium Crown Rot in wheat by endophytic actinobacteria		
	Margaret Roper, Cindy Myers, Joanna Lee and Cathryn O'Sullivan		
1430-1440	Impact of pH on microbially driven plant residue decomposition in a semi-arid soil Deirdre Gleeson, Hazel Gaza, Yoshi Sawada, Lori Phillips and Lynne MacDonald		
	Interactions between phosphorus and nitrogen on colonisation of pasture plants by arbuscular		
1440-1450	mycorrhizal fungi		
	Ahmed Alsharmani, Lynette Abbott and Zakaria Solaiman		
1450-1500	Niche separation of ammonia oxidisers in Australian soils		
1500-1530	Sasha Jenkins, Daniel Murphy, Ian Waite, Stephen Rushton and Anthony O'Donnell Afternoon tea		
Presented			
	Chair: Richard Bell The use of electrical resistivity tomography in a small scale physical catchment model to evaluate the		
1530-1534	effectiveness of surfactants on water repellent agricultural soil		
	Mary-Anne Lowe, Matthias Leopold, Gavan McGrath, Falko Mathes and Daniel Murphy		
	Carbon and nitrogen cycling under conservation agriculture practices in rice-based cropping systems in		
1534–1538	the Eastern Gangetic Plains (EGP)		
	Md. Khairul Alam and Richard Bell Soil constraints to urban agriculture in valley beds of Yaounde (Cameroon)		
1538–1542	Ibrahima Saidou and Deborah Pritchard		
	Ecophysiological responses of arid zone species to novel growth mediums and drought: Implications for		
1542-1546	restoration success		
	Amber Bateman, Wolfgang Lewandrowski, Jason Stevens and Miriam Muñoz-Rojas		
1546-1550	Water repellency under native vegetation of south-western Australia Mijan Uddin, Richard Harper and David Henry		
	Diagnosing multiple nutrient deficiencies that limit peanut growth and yield on sands in south-central		
1550-1554	coastal Vietnam		
	Thaia Thinh Nguyen, Surrender Mann and Richard Bell		
1554–1558	Modified incubation chamber set for measuring ammonia volatilization and nitrogen recovery		
	Piumika Abesekara, Kithsiri Dassanayake and Deli Chen		
1558-1602	Soil disturbance and water relations influence AM fungi, soil bacterial communities and plant growth Bede Mickan, Lynette Abbott, Falko Mathes, Kadambot Siddique and Zakaria Solaiman		
	Pasture production on three soil types with differing phosphorus holding capacities		
1602–1606	Rowan Maddern, Dean Diepeveen, Deborah Pritchard and Bradley Smith		
1606–1610	Potential impact of 6 different lime sources on soil pH in a permanent annual pasture at 2 standardised		
	rates Per Master Arian Budar and Tim Quarkey		
1610–1614	Ron Master, Arjen Ryder and Tim Overheu Building soil carbon and soil health with temperate perennial pasture species		
	Solaiman Zakaria, Lynette Abbott , Natasha Pauli, Robert Rex and Caroline Rex		
	Research and opportunities to create healthy soils in Nepal		
1614–1618	Shree Prasad Vista		
1618-1628	General discussion		

Monday 7	September 2015 (continued)	
1630–1715	Soil Science Australia (WA Branch) AGM	
1800–1900	Boodja lecture Rob Fitzpatrick, Professor, University of Adelaide Making soil talk: The value of soil in solving criminal investigations MC Tim Overheu	
1900–2200	Conference dinner	
Tuesday 8 September 2015		
0815–1800	Field trip Departs from jetty in front of Mandurah Performing Arts Centre and returns to Mandurah Performing Arts Centre. Sponsored by Clark Lindbeck and Associates	
1800-	Evening free	
Wednesday	y 9 September 2015	
0830-0900	Keynote address Why the adoption of no-tillage in Australia has been so rapid, widespread and successful Bill Crabtree, agricultural consultant and McKell medal winner 2009 Chair: Kerry Regan	
Water repe	ellent soils – presented papers	
Sponsored by		
0900-0910	Long-term impacts of one-off inversion on soil characteristics and crop productivity Stephen Davies, Derk Bakker, Craig Scanlan, David Hall and Frances Hoyle	
0910-0920	Quantifying changes to soil profiles following inversion with digital image analysis Craig Scanlan, Stephen Davies , Damian Priest and Gavin Sarre	
0920-0930	Thermal signatures of water repellent soils Abdulkareem Alsih, Gavan McGrath , Matthias Leopold and Daniel Murphy	
0930-0940	On-row seeding as a tool for managing water repellent sands Phil Ward, Margaret Roper, Ramona Jongepier and Shayne Micin	
0940–0950	Management of broad acre sub-soil compaction in the West Australian wheatbelt James Hagan, Bindi Isbister and Paul Blackwell	
0950–1000	Changing water properties of texture-contrast soils with clay delving: case studies in South Australia Giacomo Betti, Cameron Grant, Jock Churchman and Robert Murray	
1000–1010	Increased soil acidification rates under current farming systems on the Eastern and Lower Eyre Peninsula Brett Masters and Brian Hughes	
Soil acidity	- presented papers	
Sponsored by		
1010–1020	Prevention is better than cure — managing soil acidity in Western Australia Chris Gazey	
1020–1030	Assessment of direct soil survey for the creation of high resolution maps of soil acidity and nutrition in the South Stirlings Region of WA Wes Lefroy and Joel Andrew	
1030–1040	Emerging trends with treating soil acidity in South Australia Brian Hughes, Brett Masters and Andrew Harding	
1040-1110	Morning tea	
Subsoil con	straints – presented papers	
Sponsored by	DAFWA Chair: Chris Gazey	
1110–1120	High soil sodicity and alkalinity cause transient salinity in south-western Australia Ed Barrett-Lennard, Geoff Anderson and Karen Holmes	
1120–1130	Sodic soils and gypsum application in WA – a review David Hall, Dennis van Gool and Phil Ward	
1130–1140	Digital soil modelling in Western Australia to make more detailed soil maps: top-down or bottom-up? Karen Holmes, Ted Griffin, Paul Galloway and Frank D'Emden	
1140–1150	Mapping subsoil constraints across a farm with geophysical and terrain data Mike Wong, Karen Holmes, Yvette Oliver, Frank D'Emden and Kathy Wittwer	

Wednesday 9 September 2015 (continued)		
General – presented papers		
	Chair: Karen Holmes	
1150–1200	Use of remotely sensed data and deep drilling to identify Pindan soils, La Grange Area, West Kimberley, WA	
	Henry Smolinski and Karen Holmes	
1200–1210	Investigating the impacts of groundwater irrigation on soil properties and pasture nutrition, Pilbara	
	region of Western Australia Simon Yeap, Sunil Samaraweera, Richard Bell and Richard Harper	
1210–1220	How working with planners is raising the profile of soil and land capability information in WA	
	Angela Stuart-Street	
1220–1230	Effects of soil amendments on infiltration and retention of water in sandy soils	
	Gausul Azam, Cameron Grant and Pieter Poot	
1230–1240 1240–1250	Soil hydrological properties spatial datasets of Victoria: I. Interim data for dairy grazing soils MA Rab, M Davey, CD Aumann, DB Rees, S Aarons	
	Kaolin: A much maligned soil mineral	
	Bob Gilkes and Nattaporn Prakongep	
1250-1340	Lunch	
Environme	ntal impacts – presented papers	
	Chair: Gaus Azam	
1340–1350	Soil, sediment and street dust: An urban case study of the teaching–research nexus Andrew Rate	
	Sampling frequency effects estimates of annual Nitrous Oxide fluxes	
1350–1400	Louise Barton, Benjamin Wolf, David Rowlings, Clemens Scheer, Ralf Kiese, Peter Grace, Katia	
	Stefanova and Klaus Butterbach-Bahl Effectiveness of different mitigation strategies at reducing N ₂ O emissions from semi-arid soils amended	
1400-1410	with manure	
	Sasha Jenkins, Bede Mickan, Ian Waite, Daniel Murphy and Anthony O'Donnell	
	Looking beyond soil carbon; evaluating the role of perennial pastures as a tool to mitigate climate	
1410–1420	change in three different cropping environments	
	Susan Orgill, Gupta VVSR and Phil Ward Effect of dairy farm management practices on saturated hydraulic conductivity of Dermosols	
1420–1430	MA Rab, S Aarons, DB Rees, M Davey and CD Aumann	
1430–1440	Assessing extensive acidification from acid sulfate soils on Gnangara Mound	
1130 1110	Brad Degens and Hisayo Thornton	
1440-1450	Monitoring land management practice change in the NSW Mallee John Leys and Terry Koen	
1150 1500	Monitoring soil erosion: Results from 6 years of roadside observations of paddock condition	
1450–1500	Justin Laycock	
	Measurement of WEPP erodibility parameters for Western Australian arid zone soils, and their	
1500–1510	estimation from soil physical properties	
	Joseph Powers An introduction to the new Critical Zone Observatory in the Avon River Catchment	
1510–1520	Matthias Leopold	
1520–1550	Keynote address	
	Penelope Wensley, AC, Patron Soil Science Australia Chair: Deborah Pritchard	
1550–1610	Conference summary and student speaker prizes Poherah Britshard, President Soil Science Australia, WA Branch	
1610	Deborah Pritchard, President Soil Science Australia, WA Branch Conference close	
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