5th World Congress on Conservation Agriculture INCORPORATING 3rd Farming Systems Design Conference

Brisbane Convention & Exhibition Centre • Brisbane Australia • 26–29 September 2011 resilient food systems for a changing world • www.wcca2011.org

Invitation

ustralia, host for the 5th World Congress on Conservation Agriculture (WCCA5) and 3rd Farming Systems Design Conference (FSD3), will welcome scientists and practitioners to Brisbane to discuss current and future developments of sustainable agriculture in September 2011.

The co-location of WCCA5 and FSD3 provides a great opportunity to explore the application of conservation agriculture practices and principles in a systems context. The common objective is the design of more productive, economic, and sustainable farming systems to meet the challenges of expanding population, global change, and environmental degradation.

Conference program options and tours will cater for different interest groups, and take advantage of Brisbane's proximity to intensive, extensive and sub-tropical farming, as well as to world leading research groups and facilities.

We look forward to meeting you in Australia!



John Harvey
Managing Director,
Grains Research and
Development Corporation



Nick Austin CEO, Australian Centre for International Agricultural Research

FOUNDATION SPONSORS





Themes

Theme 1: More efficient management practices for Conservation Agriculture to improve livelihoods / profitability / food security and to reduce environmental footprint

- 1.1 Striking the balance between efficiency and trade-offs in input use (carbon, nutrients, water, pesticides, labour, energy, green house gas emissions)
- 1.2 More integrated solutions for crop, residue and weed management, including permanent raised beds, controlled traffic and site-specific management
- 1.3 Cost- effective and fit-for-purpose implements and machinery (small-holder implements, raised bed machinery, heavy residue seeders)
- 1.4 Reducing off-site impacts (soil ecology, runoff, erosion, groundwater pollution, GHG emissions)

Theme 2: Designing productive farming systems that integrate solutions and balance trade-offs

- 2.1 High value and lower input farming systems
- 2.2 Designing more robust and resilient farming systems in face of change (climate, markets, technologies, and policies).
- 2.3 More integrative and interdisciplinary approaches to support complex farming systems (multi-objective, new crops and genetics, multi-cropping, agroforestry
- 2.4 Maximising environmental services and biodiversity outcomes

Theme 3: Achieving impact through more effective consultation, participation and knowledge sharing

- 3.1 Industry-farmer-science-policymaker consultative platforms and the role of
- 3.2 Adoption and innovation / learning systems (extension, farmer's experimentation)
- 3.3 Landcare and participatory natural resource management
- 3.4 Global institutions and platforms (conventions, UN, CGIAR)

Theme 4: Informing policy development and supporting market effectiveness

- 4.1 Carbon and water markets (C sequestration, water saving technologies, institutional arrangements)
- 4.2 Polices and regulation (subsidy regimes, national/local and cross-sectoral harmonisation)
- 4.3 Assessment of intervention impact / equity / sustainability (methods, indicators)



Paper Submission

Condensed paper submissions are invited for the

5th World Congress on Conservation Agriculture (WCCA5) incorporating 3rd Farming System Design Conference (FSD3).

Early paper submission will allow early notification of acceptance, which will be important for overseas delegates needing time to arrange Visas, travel and financial assistance.

The 3-page condensed paper format will provide delegates with a concise record of all papers. It is important that authors follow the Congress paper submission format, which can be downloaded from the Congress website: www.wcca2011.org/condensed.htm

Super early bird registration closes on 31st December 2010. Early bird registration closes on 31st March 2011 Final date for paper submission is 15th May 2011 but earlier submission is advisable for authors particularly seeking oral presentations, or requesting financial assistance.

All inquiries regarding condensed papers for WCCA5 & FSD3 2011should be emailed to: infowcca5@icmaust.com.au.

Workshop Proposals

Workshop proposals are invited to promote debate on important issues of CA and FSD. Details on the website: www.wcca2011.org/Workshop.htm

Mid-Congress Field Day

This will be held at University of Queensland Gatton campus on 28 September, featuring demonstrations of high and intermediate-technology conservation agriculture equipment and techniques. It will be combined with CA and FSD workshops, and conclude with the Congress dinner.

Venue

The Brisbane Convention & Exhibition Centre is a world-class purpose-built venue renowned for its operational and service excellence. The Centre is located

in a unique urban cultural and entertainment precinct in the heart of Brisbane known as South Bank.

South Bank is a unique riverside cultural and entertainment precinct in the heart of the city of Brisbane. Set in lush subtropical riverfront parkland, it is a dynamic urban lifestyle and retail precinct that showcases



Queensland's art and culture and hosts one of the world's most important collections of indigenous art. Located on a one kilometre stretch of the Brisbane River, South Bank is home to the only sand and swimming beach in the heart of an Australian city. You'll be surprised at the diversity of attractions, with rainforest walks, more than 30 restaurants, cafes and bars, stylish shops, symphony orchestras, state opera companies, performing arts theatres and art culture including Australia's newest and largest Gallery of Modern Art.

Brisbane is an alive and bustling city of 1.6million people that features all the requisite offerings of the nation's fastest growing capital -world-class facilities and ever-expanding infrastructure, and unparalleled support services, shopping and entertainment. Brisbane also combines traditional Australian informality and friendliness with a multicultural atmosphere. Restaurants offering menus from many different parts of the world can be found within 10 minutes walk of the Congress venue.

The WCCA5 venue of choice is a central city location, convenient for visitors with easy and direct access to an efficient citywide transport network of buses, trains, taxis and the river's high-speed regular catamaran service. The city to airport Air Train is also very convenient and operates from the South Brisbane train station, adjacent to the Brisbane Convention & Exhibition Centre.

Registration

Key dates for registration

Close of Super Early Bird Registration	31 December 2010
Close of Early Bird Registrations	31 March 2011
Close of Standard Registrations	30 August 2011

Registration fees (AU\$) (cost includes field day and dinner)

Delegates	OECD	Non-OECD	
Super Early-Bird	700	550	
Early Bird	850	650	
Standard	1050	750	
Day registrations	400	400	

Full time students

Super Early-Bird	450	400	
Early Bird	450	400	
Standard	750	600	

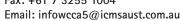
Contact Us

All enquiries including registration, accommodation, sponsorship and exhibition should be directed through the Congress secretariat.

WCCA5 & FSD3 2011 Congress Secretariat

PO Box 3599 South Brisbane QLD 4101 **AUSTRALIA**

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Program Sunday 25th September 2011

4.00pm Plaza Terrace Foyer
Registration Opens

6.30pm - Plaza Terrace Room

8.30 pm Welcome Reception

Welcome - Dr Nick Austin, CEO, Australian Centre for International Agricultural Research.



Program Day 1: Monday 26th September 2011

8.30am Plaza Terrace Room

Welcome to Country Songwoman Maroochy

Official Opening: Her Excellency Ms Penelope Wensley, Governor of Queensland and Congress Patron

Welcome on behalf of the Australian Government, The Hon Dr Mike Kelly AM, MP Parliamentary Secretary for Agriculture, Fisheries and Forestry

MC Keith Perrett, Chairman, Grains Research and Development Corporation

9.15am Congress Keynote Speaker

Dr Pedro Arreas, President, EMBRAPA - Agricultural Research Corporation of Brazil

10.00am - **Morning Tea** 10.30am

10.30am

Plaza Terrace Room

Keynote Speaker – Theme 1 Dr John Kirkegaard, CSIRO

Sense and Nonsense in Conservation Agriculture - Pragmatic Applications in the Right Context

11.00am -	Concurrent Paper Sessions								
12.30pm	Plaza Terrace Room	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5			
	1.1 Efficiencies and Trade-Offs in CA Chair Rolf Derpsch	1.4 & 1.5 Reducing Off-Site Impacts with CA Chair Pedro Machado	4.1 Carbon and Water Markets Chair Emilio Gonzales	3.1 Participatory Platforms for R,D&E Chair Brian Sims	2.2 Adapting to climate variability and change Chair Elizabeth Clarke	2.2 More Robus <mark>t and Resilient</mark> Farming Systems Design Chair David Parsons			
11.00am –	The synergy of raised beds,	Short-term effect of no-	Soil Organic Carbon	Impact and adoption of	Adapting agriculture to	Opportunities <mark>and</mark>			
11.20am	controlled traffic, minimum	tillage on profitability, soil	accumulation in	conservation agriculture in	climate change: the need	challenges for the adoption			
	tillage and stubble retention	fertility and microbiota: a	conservation agriculture: A	Africa: a multi-scale and	for a systems perspective	of CA in maize production			
	deliver higher water use	case study in a tropical	review of evidence	multi-stakeholder analysis	Lauren Rickards	areas of Laos			
	efficiency in SW Vic, Australia	ecosystem (altitude plains,	Sandra Corsi	Marc Corbeels		Guillaume Le <mark>strelin</mark>			
	Renick Peries	Lao PDR)							
		Pascal Lienhard							

	Plaza Terrace Room	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5
11.20am – 11.35am	Direct seeded rice and zero tillage wheat: an approach of resource conservation in rice- wheat system of Indo Gangetic plains (IGP) of India Virendra Pratap Singh	Conservation agriculture potential effects on Soil Erosion for rainfed crops in the Lake Alaotra region in Madagascar Eric Scopel	Harnessing Ecosystem Services with Conservation Agriculture Amir Kassam	Global Overview of the Spread of Conservation Agriculture Theodor Friedrich	Adapting to change: more realistic quantification of impacts and better informed adaptation alternatives Daniel Rodriguez	Striga asiatica: a driving- force for dissemination of CA systems based on Stylosanthes guianensis in Madagascar Olivier Husson
11.35am – 11.50am	Energy scenario and water productivity of maize based cropping system under conservation agriculture practices in South Asia CM Parihar	Conservation agriculture, aggregate stability and the organic carbon distribution in soil aggregates Mariela Fuentes	A comparison of the greenhouse gas emissions from dryland and irrigated grain farming systems in Australia Tek Maraseni	The conservation agriculture Network for SE Asia -CANSEA, an initiative to develop & disseminate CA in SE Asia Jean-Claude Legoupil	Assessing the adaptation of arable farmers to climate change using DEA and bioeconomic modelling Argyris Kanellopoulos	Acehnese farmers trial conservation farming techniques Gavin Tinning
11.50am – 12.05pm	Irrigation performance and seasonal changes under permanent raised beds on vetrisols in Old, Australia Ghani Akbar	The effects of soil conservation practices implemented in basal plateau scarp -southern Brazil Gustavo Merten	An index to rate the quality of no-till systems: a conceptual framework Glaucio Roloff	Development and promotion of zero tillage in Iraq and Syria Colin Piggin	Capacity of broadacre farmers to adapt to climate change in Queensland Kerry Bridle	Assessment of tradeoffs for biomass uses between livestock and soil cover at farm level Krishna Naudin
12.05pm – 12.20pm	Evaluation of mulch for irrigated zero till wheat in north-west India Balwinder Singh	Carbon sustainability and productivity of maize based cropping system under CA practices in Indo-Gangetic plains Shankar Jat	An index to rate the quality of no-till systems: validation Glaucio Roloff	CA coordination in Zimbabwe, through the Zimbabwe CA Michael Jenrich	Performance of an efficient dairy farm system using combined environmental impact mitigation strategies in a variable climate Vicki Burggraaf	Short term intensive rotational grazing in native pasture: Effects on soil nitrate and extractable P Gholamreza Sanjari
12.20pm – 12.30pm	Discussion					
12.30pm - 1.30pm	Lunch & Exhibition					

1.30pm -	Concurrent Paper Sessions					
3.00pm	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5
	1.1 Efficiencies and Trade-Offs in CA Chair Mahesh Gathala	1.3 Effective CA Equipment Chair John Blackwell	1.6 Adaptation of CA across environments Chair Saidi Mkomwa	3.1 Participatory Platforms for R,D&E Chair Emilio Gonzalez–Sanchez	2.2 Opportunities and Trade-offs in farming systems design Chair Valentin Picasso	2.2 More integrative analyses in farming systems design Chair Howard Cox
1.30pm – 1.50pm	CA in cereal systems of South Asia: Effect on crop productivity & carbon based sustainability index ML Jat	Disc seeders in conservation agriculture: An Australian survey Jack Desboilles	Genetic control of wheat adaptation to conservation agriculture Richard Trethowan	Decision support systems, risk assessment and priority setting - some experiences and opinions David Freebairn	Robustness of livestock farmers to climate variability: a case study in Uruguay Valentin Picasso	A decision support tool for optimizing integration of specialty crop enterprises in grain production systems Lori Hoagland
1.50pm – 2.05pm	Short term agronomic gains from conservation agriculture in NW China Allen McHugh	Improved no-till seeding performance in Northern China using powered-chain residue manager Li Hui	Cereal system characterization and potential of conservation agriculture in South Asia Vijesh Krishna	Inclusive research for agricultural development: farmers' participation and innovation Ajai Kumar	Western Australian farm businesses build resilience David Maxwell Gray	Modelling sowing time response of canola in the northern wheatbelt of Western Australia Bob French
2.05pm – 2.20pm	Enhancing nitrogen use efficiency in wheat sown into rice residue and effect of straw management on soil health in rice-wheat system in North West India Yadvinder Singh	Machinery Development for crop residue management under direct drilling Harminder Singh	Upland rice under zero tillage in Brazil: Performance of Embrapa cultivars, cover crops, soil mineral nitrogen, furrow compaction and termite control Pedro Machado	Assessing production risks in agricultural systems – a modelling study with APSIM-maize in New Zealand Edmar Teixeira	Can corporate farms provide new pathways to improve the profitability and productivity of family farms? Brendan Lynch	Modelling options for a Western Queensland mixed grain and graze farm evaluating enterprise options under climate change Howard Cox
2.20pm – 2.35pm	InfoRCT: productivity, income and environment simulation tool for CA based rice-wheat rotation Yashpal Saharawat	Advanced Design of Permanent Raised Bed Machinery in Pakistan Muhammad Irfan	Conservation tillage improves soil properties and crops yields in North China He Jin	An integrated systems thinking deliberative process to explore approaches for dealing with the impacts of land use on water quality Liz Wedderburn	Using value chain systems modelling to develop more sustainable cool temperate vegetable marketing systems in a transitional economy: a case study in PNG Laurie Bonney	Mixed crop-livestock businesses reduce price and climate-induced variability in farm returns: a model- derived case study Lindsay Bell
2.35pm – 2.50pm	Sustainable agriculture in the Aral Sea Basin: Introducing Legumes in Crop Rotations Maryse Bourgault	Economics of alternatives of owning the Happy Seeder for managing stubble and direct drilling wheat in Rice-Wheat System Rajinder Singh	Conservation agriculture in Haryana, India: Past Experiences & Future Plans Ashok K Yadav	Combining different modelling approaches for a participative assessment of alternative agricultural systems at different scales Sylvestre Delmotte	Cultivation of African Walnut Tetracarpidium conophorum Mull. (Arg) on Agricultural Plantation: An approach to CA in Nigeria Folaranmi Babalola	Feed gaps and the effect of cereal grazing in a dryland farming system of the South Australian Mallee – a croplivestock model application Katrien Descheemaeker

2.50pm – 3.00pm	Discussion						
3.00pm – 3.30pm	Afternoon Tea						
3.30pm –	Concurrent Workshop Sessio	ns					
5.00pm	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5	
	Maize Legume Intensification in Eastern Southern Africa (SIMLESA I) Mulugetta Mekuria (CIMMYT)	Sustainable Farm Practices & Policies lan Thompson (DAFF)	Adaptive Systems for a Changing World Drew Lyon (U. of Nebraska)	Reduced Labour for Lower Mekong Farming Pheng Sengxua (NAFRI) & Len Wade (CSU)	Farming Systems to Minimise GHG Emissions Peter Thorburn, (CSIRO)	No-till, the neagreed definit	ion
5.00pm – 6.00pm	Plaza Terrace Room Reflections: International Pa	nel					
6.30 pm – 9.00 pm	Congress rooms will be availab	ole for special interest group m	neetings				
6.00pm	International Farmers Event hosted by CAAANZ (Conservation Agriculture Alliance of Australia and New Zealand) - Jean-Francois Rochecouste Plaza Room 5						
7.30pm	WCCA 5 International Steering	Committee Meeting 1st meet	ing - By Invitation Only			Boardroom 2 (N	lezzanine Level)

Program Day 2: Tuesday 27th September 2011

8.30am – 9.00am	Plaza Terrace Room Keynote Speaker – Theme Dr Mario Herrero ILRI Production systems for the f	2 uture: balancing trade-offs betw	reen food production, efficienc	cy, livelihoods and the environm	ent		
9.00am – 10.00am	Poster Presentations – Plaza	a Terrace Foyer					
10.00am - 10.30am	Morning Tea						
10.30am -	Concurrent Paper Sessions						
12.00pm	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5	
	1.2 More integrative CA systems Solutions Chair Li Hongwen	1.4 & 1.5 Reducing Off and On-Site Impacts Chair Eric Scopel	4.2 Policies and Regulation Chair Glaucio Roloff	3.2 Adoption and Innovation platforms Chair Jay Cummins	2.3 More integrative analyses in farming systems design Chair Colin Birch	2.3 New syster in farming system Chair Holger	tems design

10.30am – 10.50am	Soil and yield improvements from Controlled Traffic Farming CTF on a Red Chromosol were similar to CTF on a swelling Black Vertosol Tim Ellis	Crop roots and crop residues management: impacts on soil structure under zero tillage Mariela Fuentes	Mainstreaming CA: Challenges to Adoption, Institutions and Policy Amir Kassam	Initiating Sustainable Agricultural Systems through Conservation Agriculture in Mozambique: Preliminary experiences from SIMLESA Isiah Nyagumbo	Farm typologies and resilience: The diversity of livelihood strategies seen as alternative system states Pablo Tittonell	Reducing the cost of complexity for greater farming systems change Rick Llewellyn
10.50am – 11.05am	Comparison of different soil tillage systems, under several crop rotations in wheat production at Central Anatolian Plateu, Turkey Ýrfan Gültekin	Conservation agriculture in southern Africa: Longer term trends in soil quality and crop productivity Christian Thierfelder	Ecological responses to public policy scenarios in farmlands: a bio-economic modelling approach Lauriane Mouysset	Adaptation of Conservation Agriculture by smallholder farmers in Malawi: drivers, intensity, benefits and problems for up scaling Amos Robert Ngwira	Building social resilience through understanding capacities of smallholder farming in Papua New Guinea Colin Birch	ADOPT: a tool for evaluating adoptability of agricultural innovations Geoff Kuehne
11.05am – 11.20am	The effects of minimum and conventional tillage systems on maize grain yield and soil fertility in western Ethiopia Tolessa Debele Dilalessa	No-tillage effects on soil carbon storage and carbon dioxide emissions in northern China En Ke Liu	Opportunities for Conservation Agriculture in the European Union' schemes 2020 Gottlieb Basch	The Role of Social Capital in the Adoption of Conservation Agriculture: The Case of likoti in Lesotho. Amir Kassam	A framework for exploring rural futures through collective learning M Wedderburn	Exploring hotspots in the carbon footprint and energy use profiles of tomatoes grown for the Sydney market Girija Page
11.20am – 11.35am	Controlled Traffic/ Permanent Bed Farming Reduces GHG Emissions Jeff Tullberg	Happy seeder technology: a solution for residue management for the sustainability of the rice-wheat system of the Indo-Gangetic Plains Mahesh Gathala	Regional Conservation Agriculture project proposal in degraded annual cropping systems areas in South East Asia Panyasiri Khamkéo	Extension and determinants for adoption of direct seeding mulch-based systems in smallholder agriculture, LAO PDR Frédéric Jullien	The sustainable intensification of maize-legume farming systems in eastern and southern Africa (SIMLESA) program Mekuria Mulugetta	The expected value of seasonal stream-flow forecasts to a grain-cotton irrigator in the Condamine-Balonne catchment. Brendan Power
11.35am – 11.50am	Controlled Traffic Farming – more productivity, sustainability and resilience Don Yule	The Contribution of Rainfall Erosivity, Soil Cover and Organic Carbon to Soil loss and Run-off under Conservation Agriculture on a Fersiallitic Red clay soil in Zimbabwe Isaiah Nyagumbo	Brazilian Public Policy to Mitigate and Adapt for Climate Change and Develop a Low-Carbon Agriculture Plan Luiz Cordeiro	Predisposition for Conservation Agriculture in North West Ghana Keith Moore	Improving cattle profitability in mixed crop- livestock systems in south central coastal Vietnam using an integrated modelling approach David Parsons	To mix or not to mix: evidences for the unexpected high productivity of new complex agrivoltaic and agroforestry systems. Christian Dupraz
11.50am – 12.00pm	Discussion					
12.00pm – 12.30pm	Plaza Terrace Room Keynote Speaker – Theme 3 Dr Dennis Garrity, ICRAF Making Conservation Agricultur	e Ever Green				

12.30pm – 1.30pm	Lunch, Exhibition and Poster	Presentations							
1.30pm-	Concurrent Workshop Sessions								
3.00pm	Plaza Terrace Room	Plaza 1		Plaza 2		Plaza 3		Plaza 4	
	Maize Legume Intensification i Eastern Southern Africa (SIMLESA II) Mulugetta Mekuria (CIMMY	Systems Andrew Moore (CSIRO			del for promoting ulture around the alian Landcare	Beds Susta	CTF Solutions)	Integrated Assessme Systems: Categorisi Simulating Trade-of (Typologies I) Walter Rossing (W	ng Diversity, fs
3.00pm – 3.30pm	Afternoon Tea								
3.30pm –	Concurrent Paper Sessions								
5.00pm	Plaza Terrace Room	Plaza 1	Plaza 2		Plaza 3		Plaza 4	Plaza 5	
3.30pm – 3.50pm	1. 2 More integrative CA systems Solutions Chair Liz Humphreys	1.3 Effective CA Equipment Chair Harminder Sidhu	Equity, Sus	ty and Adaptive	3.2 Adoption and platforms Chair Mary Joh		2.3 The role of systems analysis in co-learning Chair Walter Rossing	2.3 Opportunit trade-offs in fa systems design Chair Drew Ly	arming
3.30pm – 3.50pm	The Effect of Tillage Practice and Residue Management on Wheat Yield and Yield Stability in Two Agro-ecological Environments in Mexico Bram Govaerts	Development of the conservation agriculture equipment industry in sub- Saharan Africa Brian Sims			Integrating Conso Agriculture into F Education System Tonie Putter	ormal	The role of systems analysin co-learning Walter Rossing	sis Nitrogen is ess capture the ber summer rainfa Mediterranean of South Austr Victor Sadras	nefit of II for wheat in environments
3.50pm – 4.05pm	Rice straw mulching and nitrogen management to improve productivity of no-till wheat following rice in Bangladesh Ataur Rahman	Versatile Multi-crop Planter for Two-wheel Tractors: An Innovative Option for Smallholders Md. Enamul Haque			Conservation Agr Tanzania: The Cas Mwangaza B CA Field School (FFS) Village, Karatu Di Arusha Tanzania Wlfred Mariki	se of Farmer , Rhotia	Co-innovation of family farm systems in Uruguay: the role of farm modeling Santiago Dogliotti Moro	Australia: bene	uth-East

4.05pm – 4.20pm	The impact of trash management and tillage on soybean productivity in sugar-based farming systems Neil Halpin	Improving furrow backfill in rotary strip-tillage systems Md. Abdul Matin	Scope of sustainability - Do castor beans and the biodiesel industry offer family farmers a sustainable development opportunity in Brazil? Madeleine Florin	Training Programme to Overcome Barriers and to Intensify the Adoption of Conservation Agriculture in the Eastern Cape Province, South Africa Dirk Lange	Assessing rural resources and rural livelihood development strategies combining socioeconomic and spatial methodologies Krishna Bahadur	Biomass shifts suppresses we populations ur conservation a Michael Mulv	ed nder griculture
4.20pm - 4.35pm	Crop residues, an effective tool for improving wheat growth and suppression of some associated weeds Mahmoud Hozayn	Innovations for relay planting of wheat in cotton: a breakthrough for enhancing productivity and profitability in cotton-wheat systems of South Asia Gurmeet Buttar	Conservation Agriculture and Rainfall variability in Zambia: Is CA a promising option for responding to droughts and floods? Bridget Umar	Factors Affecting Adoption of Conservation Agriculture in Malawi (A Case Study of Salima District) James L Mlamba	A Spatial Analysis: Creating similarity domains for targeted research sites in Zimbabwe Andries Potgieter	Sustainable in of maize-bean among smallh in western Ken John Achieng	production older farmers ya
4.35pm – 4.50pm	Carbon Footprint of Crop Production due to shift from Conventional to Conservation Agriculture Ranjan Laik	Effect of narrow opener geometry on lateral surface soil movement and implications for no-till seeding Aliakbar Solhjou	From local Min-Till experience to a strategy for CA development in EU Gerard Rass	Barriers and emerging success factors towards effective ca adoption in the Uluguru Mountains, Tanzania. Monica Coll Besa	Identifying the fit for perennial forage options in a crop-livestock system: use of a whole-farm optimization model Marta Monjardino	Agroforestry A and Mitigation Smallholder Fa Vulnerable to C Change Brenda Lin	Options for or o
4.50pm – 5.00pm	Discussion						
5.00pm – 6.00pm	Concurrent "So What?" Sessi	ons What's the practical sig	nificance of what we've seen	and heard so far?			
0.00рт	Plaza Terrace Room Theme 1	Plaza 1 Theme 2		Plaza 2 Theme 3	Plaza 3 Theme 4		
6.30 pm – 9.00 pm	- Congress rooms will be available for special interest group meetings						
6.00pm	CANSEA Reception – Jean-Cl (Conservation Agriculture Netw			Plaza Room 5			
7.30pm	WCCA 5 International Steering By Invitation Only	ng Committee Meeting 2nd r	neeting	Boardroom 2 (Mezzanine Level)		

Program Day 3: Wednesday 28th September 2011

Mid-Congress Field Day at University of Queensland's Gatton Campus

7.45am Meet at main entrance of Brisbane Convention & Exhibition Centre

8.00am Buses depart to University of Queensland, Gatton

9.30am Arrival at University of Queensland, Gatton

The field day event will be held at University of Queensland Gatton Campus, about 80 km west of Brisbane. This will be a full day program with demonstrations in the field, combined with workshops, discussions and software demonstrations in campus buildings, concluding with the Congress dinner. A detailed program and map will be handed out at the Congress, and lunch provided for Congress participants.

At lunchtime, there will be a brief address by Dr Tom Lumpkin, Director of CIMMYT, and Bill Crabtree, No-Till Consultant.

Prof Neal Menzies, Head, School of Agriculture and Food, University of Queensland, will welcome delegates pre-dinner.

Farmers will be invited to participate in the field day, and we expect valuable and informative interactions at demonstrations and discussions.

Field events:

Commercial No-till Seeders Experimental No-till Seeders Commercial spray technology

Precision Agriculture, Satellite & UAV Images Proximal Monitoring, Precision Guidance Soil Condition Assessment, Rainfall Simulator Soil Health, Structure and Root Architecture Power Penetrometer, Soil Pit

Campus events:

Workshops:

Empowering smallholders for CA. CTF reduced till for intensive vegetables. Integrated assessment of farming systems. Rice residue management.

Demonstrations

Farming Systems Design APSIM demonstrations. Spray nozzle performance

Discussion events.

Forum: Mining and Agriculture

4th Farming Systems Design Conference Planning Meeting

Q&A: Farmers, Manufacturer, Scientist

3.3 Adoption and Innovation

Chair: Mary Johnson

11.00am - 11.20am Wolfgang G. Sturny

From plow to no-till: the Bernese farmer to farmer's incentive soil support program

11.20am - 11.35am Rob Youl

Landcare – apaptable program for rural

community development

11.35am - 11.50am Jeremy Bourgoin

Engaging local communities in

negotiating their own pathway towards

conservation practices

11.50am - 12.05pm Sanjay Arora

Natural Resource Conservation through Watershed approach vis-à-vis economic sustainability in foothills of Northwest

Himalayas, India

12.05pm - 12.20pm Hendrik Smith

Promotion of CA in South Africa:

evolution and impact

6.15pm	Congress Dinner
8.30pm	Depart University of Queensland, Gatton by bus and return to Brisbane

Program Day 4: Thursday 29th September 2011

8.30am – Plaza Terrrace Room

9.00am Keynote Speaker - Theme 4

Dr Kamel Shideed, ICARDA

Informing Water Policy Development for Sustainable and Productive Food Production Systems in Dry Areas.

9.00am –	Concurrent Paper Session	ons						
10.30am	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5	M2	
	1.2 More integrative CA systems Solutions Chair Rick Peries	1.4 & 1.5 Reducing Off- and On-Site Impacts Chair Gustavo Merten	1.6 Adaptation of CA to across environments Chair Bram Govaerts	3.2 Adoption and Innovation platforms Chair Rick Llewellyn	2.2 New systems analysis tools in farming systems design Chair Daniel Rodriguez	2.2 New farming systems designs in dryland agriculture Chair John Dimes	2.1+2.4 Farming Systems Design: Biodiversity and soil health Chair Richard Doyle	
9.00am – 9.20am	Trade-offs of crop residue use in smallholder mixed farming systems in Sub-Saharan Africa and South Asia Diego Valbuena	Spatial variation of soil constraints and its implications for site-specific soil and nutrient management in conservation agriculture Yash Dang	The adoption of conservation agriculture in the Lake Aleotra area after 10 years Eric Penot	Farmer innovation: seeder fabrication and uptake of zero tillage in Iraq Sinan Jalili	Whole-farm models: a review of recent approaches Mike Robertson	Is there an ideal farming system to maximize stored soil water in the Eastern Australian, Vertosol dominated, semi arid sub tropics? Jeremy Whish	Does landscape heterogeneity modulate the trade-off between production and biodiversity Muriel Tichit	
9.20am – 9.35am	Maize Yield Increases and Stabilization under CA in Semi-arid Districts of Tanzania Saidi Mkomwa		Experience in low cost CA farming systems with small scale farmers of north eastern Tanzania Joseph Mwalley	Conservation Agriculture Adoption Challenges in Zimbabwe Kizito Mazvimavi	Designing modular frameworks for crop modelling: implementation and guidelines for use Myriam Adam	Irrigated lucerne and dryland sorghum are effective crop options for reducing deep drainage in the farming systems of the Lockyer Valley, Australia Brett Robinson	Agroecology-based aggradation-conservation agriculture (ABACO): targeting resource-limited and degraded environments of semi-arid Afric Pablo Tittonell	
9.35am – 9.50am	Conservation tillage systems for peanut cultivars in rotation with sugarcane and pastures in Brazil: effects on yield pod and root growth Denizart Bolonhezi	Using Conservation Agriculture to improve water use efficiency in wheat crops on the Branson farm in South Australia. Mark Branson	Does Conservation Agriculture Pay? Experiences from Zimbabwe Killain Mutiro	Up-scaling of Conservation Agriculture in Zambia: Some key practical barriers in practice of minimum tillage among smallholder farmers Progress Nyanga	A Modelling Approach to Explore the Impact of Root Distribution and Citrate Release on Phosphorus Use Efficiency of Crops Enil Wang	Long-term evaluation of dryland cropping systems intensification for sustainable production in the semi-arid tropics of India V Nageswara Rao	A more predictable approach to sequestration of organic carbon in soil Peter McGee	

	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5		M2	
9.50am - 10.05am	No-till dryland sugarbeet production in the semi- arid US High Plains Drew Lyon	White grubs, Scarabaeidae larvae (Insecta, Coleoptera) control by plants in CA: effects on macrofauna diversity Bodovololona Rabary	Conservation agriculture in drylan agro-ecosystems of Ethiopia Tewodros Mesfin		Modernizing traditional agriculture - Optimization of maize-vegetable intercropping systems Sebastian Munz	Economics of g mungbean afte the rainfed low Cambodia Sareth Chea	er rice in	phosphor through o	
10.05am – 10.20am	Soil organic carbon and nitrogen sequestration by long-term of CA in Mollisol in Mexico Joel Perez Nieto	Simulating maize (Zea Mays L.) responses to fertilizer under CA practices in two distinct pedo-climatic zones of Zimbabwe Frederico Pancaro	Conservation Agriculture for Smallholders in Afric Lessons, Challenges the Vision Saidi Mkomwa	3	Towards an efficient and useful crop disease model Roger Lawes	Intercropping mungbean to i summer cropp systems in Que Australia Joseph Eyre	intensify ing	agricultur applicatio grain yield organic co comparat	
10.20am – 10.30am	Discussion								
10.30am- 11.00am	Morning Tea								
11.00am –	Concurrent Workshop Sessions								
12.30pm	Plaza Terrace	Plaza 1		Plaza 2	Plaza 3		Plaza 4		
	Herbicide Resistance and Pesticide Issues in CA Jacques Wery (INRA-Fra	ance) Certification	nvironmental y, Indicators and n (U. De Londrinas)	Climate Change Mitigation and Adaption PIARN Richard Eckard, University of Melbourne	for CA Adoption	for CA Adoption Engager			
11.00am	Paper Session – Plaza 5 4.3 Interventions and In Chair Jean-Francois Roch								
11.00am – 11.15am	Bio–economic optimisation of land use to manage natural resources lan Hume								
11.15am – 11.30am	A framework for international standard for CA: stewardship for sustainable production Shan-Jung Lin								
11.30am - 11.45am	The spatial agglomeration of low-impact farming intensity: implications for biodiversity conservation Felix Teillard								
11.45am – 12.00pm	Sustainable agriculture in Carbon arithmetics LIFE+ Agricarbon Emilio González-Sanchez								

12.00pm – 12.30pm	Discussion	
12.30pm – 1.30pm	Lunch, Exhibition and Poster Presentations	
1.30 pm 2.00pm	Plenary Address – Plaza Terrace Room Address by the Foreign Affairs Minister of Australia, Mr Kevin Rudd Chair: Dr Nick Austin, CEO, Australian Centre for International Agricultural Research.	
2.00pm – 2.30pm	Keynote Speaker – Theme 1 Mr Richard Heath – Conservation Agriculture: have the good years become the bad years?	
2.30pm- 3.30pm	Plenary Session Workshop Reports	
3.30pm - 4.30pm	Plenary "So What": International Panel Session	
4.30pm – 5.00pm	Afternoon Tea	
5.00pm	End of Congress	

