

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

Themes

Australia, 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

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 systems tools
- 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)

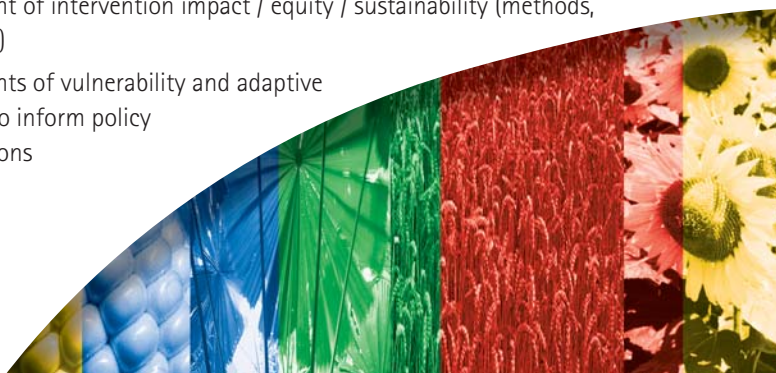
Theme 4: Informing policy development and supporting market effectiveness

- 4.1 Carbon and water markets (C sequestration, water saving technologies, institutional arrangements)
- 4.2 Policies and regulation (subsidy regimes, national/local and cross-sectoral harmonisation)
- 4.3 Assessment of intervention impact / equity / sustainability (methods, indicators)
- 4.4 Assessments of vulnerability and adaptive capacity to inform policy interventions

FOUNDATION SPONSORS



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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 2011 should 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
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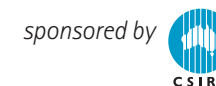


Program Sunday 25th September 2011

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 Robust and Resilient Farming Systems Design Chair David Parsons
11.00am – 11.20am	The synergy of raised beds, controlled traffic, minimum tillage and stubble retention deliver higher water use efficiency in SW Vic, Australia Renick Peries	Short-term effect of no-tillage on profitability, soil fertility and microbiota: a case study in a tropical ecosystem (altitude plains, Lao PDR) Pascal Lienhard	Soil Organic Carbon accumulation in conservation agriculture: A review of evidence Sandra Corsi	Impact and adoption of conservation agriculture in Africa: a multi-scale and multi-stakeholder analysis Marc Corbeels	Adapting agriculture to climate change: the need for a systems perspective Lauren Rickards	Opportunities and challenges for the adoption of CA in maize production areas of Laos Guillaume Lestrelin

	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 bio-economic 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 Qld, 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					

Concurrent Paper Sessions						
1.30pm - 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 <i>Tetracarpidium conophorum</i> 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 crop-livestock model application Katrien Descheemaeker

2.50pm – Discussion
3.00pm

3.00pm – Afternoon Tea
3.30pm

3.30pm – Concurrent Workshop Sessions
5.00pm

Plaza Terrace

Maize Legume Intensification
in Eastern Southern Africa
(SIMLESA I)
Mulugetta Mekuria
(CIMMYT)

Plaza 1

Sustainable Farm Practices
& Policies
Ian Thompson (DAFF)

Plaza 2

Adaptive Systems for a
Changing World
Drew Lyon (U. of
Nebraska)

Plaza 3

Reduced Labour for Lower
Mekong Farming
Pheng Sengxua (NAFRI) &
Len Wade (CSU)

Plaza 4

Farming Systems to
Minimise GHG Emissions
Peter Thorburn, (CSIRO)

Plaza 5

No-till, the need for an
agreed definition
Pat Wall, (CIMMYT)

5.00pm – Plaza Terrace Room
6.00pm **Reflections: International Panel**

6.30 pm – Congress rooms will be available for special interest group meetings
9.00 pm

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 meeting - By Invitation Only Boardroom 2 (Mezzanine Level)

Program Day 2: Tuesday 27th September 2011

8.30am – Plaza Terrace Room
9.00am **Keynote Speaker – Theme 2**
Dr Mario Herrero ILRI
Production systems for the future: balancing trade-offs between food production, efficiency, livelihoods and the environment

9.00am – **Poster Presentations** – Plaza Terrace Foyer
10.00am

10.00am – Morning Tea
10.30am

10.30am – Concurrent Paper Sessions
12.00pm

Plaza Terrace

1.2 More integrative CA
systems Solutions
Chair Li Hongwen

Plaza 1

1.4 & 1.5 Reducing Off and
On-Site Impacts
Chair Eric Scopel

Plaza 2

4.2 Policies and Regulation
Chair Glaucio Roloff

Plaza 3

3.2 Adoption and
Innovation platforms
Chair Jay Cummins

Plaza 4

2.3 More integrative analyses
in farming systems design
Chair Colin Birch

Plaza 5

2.3 New systems analysis tools
in farming systems design
Chair Holger Meinke

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 Plateau, 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 Agriculture Ever Green					

12.30pm – 1.30pm	Lunch, Exhibition and Poster Presentations					
1.30pm-3.00pm	Concurrent Workshop Sessions					
	Plaza Terrace Room	Plaza 1	Plaza 2	Plaza 3	Plaza 4	
	Maize Legume Intensification in Eastern Southern Africa (SIMLESA II) Mulugetta Mekuria (CIMMYT)	Modelling Mixed Crop-Livestock Systems Andrew Moore (CSIRO)	Landcare – a model for promoting sustainable agriculture around the world Rob Youl (Australian Landcare International)	Controlled Traffic and Permanent Beds Sustainable for CA Don Yule (CTF Solutions)	Integrated Assessment of Farming Systems: Categorising Diversity, Simulating Trade-offs (Typologies I) Walter Rossing (WUR)	
3.00pm – 3.30pm	Afternoon Tea					
3.30pm – 5.00pm	Concurrent Paper Sessions					
	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	4.3 & 4.4 Policy Impacts on Equity, Sustainability, Vulnerability and Adaptive Capacity Chair Amir Kassam	3.2 Adoption and Innovation platforms Chair Mary Johnson	2.3 The role of systems analysis in co-learning Chair Walter Rossing	2.3 Opportunities and trade-offs in farming systems design Chair Drew Lyon
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	Conservation agriculture: Perspectives from Salamieh District, Syria Shinan Kassam	Integrating Conservation Agriculture into Formal Education Systems Tonie Putter	The role of systems analysis in co-learning Walter Rossing	Nitrogen is essential to capture the benefit of summer rainfall for wheat in Mediterranean environments of South Australia Victor Sadras
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	Policy impacts on land-use and agricultural practices in North-West India Nick Milham	Conservation Agriculture in Tanzania: The Case of Mwangaza B CA Farmer Field School (FFS), Rhotia Village, Karatu District, Arusha Tanzania Wifred Mariki	Co-innovation of family farm systems in Uruguay: the role of farm modeling Santiago Dogliotti Moro	Stubble retention in cropping in South-East Australia: benefits and challenges Len Wade

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 and suppresses weed populations under conservation agriculture Michael Mulvaney
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 intensification of maize-bean production among smallholder farmers in western Kenya John Achieng
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 Solhjoui	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 Adaptation and Mitigation Options for Smallholder Farmers Vulnerable to Climate Change Brenda Lin
4.50pm – 5.00pm	Discussion					
5.00pm – 6.00pm	Concurrent "So What?" Sessions What's the practical significance of what we've seen and heard so far?					
	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-Claude Legoupil (Conservation Agriculture Network for South East Asia)			Plaza Room 5		
7.30pm	WCCA 5 International Steering Committee Meeting 2nd meeting By Invitation Only			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 – adaptable 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 Terrace 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 – 10.30am Concurrent Paper Sessions

	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5	M2
9.00am – 10.30am	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	Termite Prevalence and Crop Lodging under Conservation Agriculture in Semi-arid Zimbabwe Eleanor Mutsamba	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 Africa Pablo Titttonell
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 dryland agro-ecosystems of Ethiopia Tewodros Mesfin	A Qualitative expert Assessment Tool (QAToCA) for assessing the adoption of Conservation Agriculture in Africa: selected application in Kenya and Tanzania Hycenth Tim Ndah	Modernizing traditional agriculture – Optimization of maize-vegetable intercropping systems Sebastian Munz	Economics of growing mungbean after rice in the rainfed lowlands of Cambodia Sareth Chea	Opportunity to increase phosphorus efficiency through co-application of organic amendments with mono-ammonium phosphate (MAP) David Gale
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 Africa: Lessons, Challenges and the Vision Saidi Mkomwa	Developing and adapting mechanized conservation agriculture machinery for smallholder systems of southern Africa Lewis T Mataba	Towards an efficient and useful crop disease model Roger Lawes	Intercropping maize and mungbean to intensify summer cropping systems in Queensland, Australia Joseph Eyre	Effects of conservation agriculture and manure application on maize grain yield and soil organic carbon: a comparative analysis Leonard Rusinamhodzi
10.20am – 10.30am	Discussion						
10.30am – 11.00am	Morning Tea						
11.00am – 12.30pm	Concurrent Workshop Sessions						
	Plaza Terrace	Plaza 1	Plaza 2	Plaza 3	Plaza 4	Plaza 5	M2
	Herbicide Resistance and Pesticide Issues in CA Jacques Wery (INRA-France)	Payment for Environmental Services: Policy, Indicators and Certification Ricardo Ralisch (U. De Londrinás)	Climate Change Mitigation and Adaption PIARN Richard Eckard, University of Melbourne	ACT 2 Empowering Smallholders for CA Adoption Saidi Mkomwa	Landcare and Community Engagement Rob Youl		
11.00am	Paper Session – Plaza 5 4.3 Interventions and Impacts Chair Jean-Francois Rochecouste						
11.00am – 11.15am	Bio-economic optimisation of land use to manage natural resources Ian 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-Sánchez						

12.00pm – Discussion
12.30pm

12.30pm – Lunch, Exhibition and Poster Presentations
1.30pm

1.30 pm **Plenary Address – Plaza Terrace Room**
2.00pm **Address by the Foreign Affairs Minister of Australia, Mr Kevin Rudd**
Chair: Dr Nick Austin, CEO, Australian Centre for International Agricultural Research.

2.00pm – **Keynote Speaker – Theme 1**
2.30pm **Mr Richard Heath** – Conservation Agriculture: have the good years become the bad years?

2.30pm– **Plenary Session**
3.30pm Workshop Reports

3.30pm - Plenary "So What": International Panel Session
4.30pm

4.30pm – **Afternoon Tea**
5.00pm

5.00pm End of Congress

