

# Scientific Program

## Integrated 4ICSC, 5ACSC and 12AAC Program

Please check the pocket program in your satchel for the latest program.

### SUNDAY 26 SEPTEMBER 2004

1500	Venue: Congress office, Main Foyer, Brisbane Convention & Exhibition Centre <b>Registration opens</b>
1800–1930	Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Welcome Reception and Exhibition Opening</b>

### MONDAY 27 SEPTEMBER 2004

0900	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Official opening</b> Chair: Dr Bob Clements <b>Dr C Jerry Nelson</b> President, International Crop Science Society, USA <b>Hon Tim Fischer FTSE</b> Chairman, Crawford Fund; Chairman, Tourism Australia; farmer; author; and former Deputy Prime Minister of Australia
0930	<b>Plenary: Crop science for a diverse planet</b> <i>Stocktake on cropping and crop science for a diverse planet</i> <b>Prof M S Swaminathan</b> M S Swaminathan Research Foundation, India sponsored by USDA-ARS
1015	Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Refreshment Break</b> sponsored by SARDI
1100	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Plenary: Crop science for a diverse planet</b> Chair: Dr Bob Clements <i>Science and technology: the essential way to keep sustainable development of world agriculture and trade</i> <b>Dr Yanhua Liu</b> Vice Minister, Ministry of Science & Technology, PR China
1145	<i>Crop science, rural poverty, and the family farm in a globalising world</i> <b>Prof Michael Lipton</b> Sussex University, UK
1230	<i>Crawford Fund launch of "The Burning of the Rice", a book by Dr Don Puckridge</i> <b>Hon Tim Fischer FTSE</b> Chairman, Crawford Fund
1240	Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Lunch</b>
1400	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Plenary: Crop science for addressing water scarcity</b> Chair: Prof Hubert Spiertz <i>Water scarcity – fact or fiction?</i> <b>Prof Frank Rijsberman</b> IWMI, Sri Lanka sponsored by IWMI
1445	<i>Increasing the water productivity of scarce water – from genetics to field management</i> <b>Dr John Passioura</b> CSIRO Plant Industry, Australia

#### Namebadges

Please wear your namebadge at all times. It is your admission pass to sessions, the trade exhibition and poster displays, and morning and afternoon teas. If you misplace your namebadge please see staff at the Congress office.

1530	Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Refreshment Break</b> sponsored by SARDI	Venue: M3 <b>Crop science for a sustainable future</b> Chair: Prof Olaf Christen	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Dr Thomas Higgins	Venue: PI & 2 <b>Crop science for effecting change</b> Chair: Prof Beth Woods	Venue: M1 & 2 <b>Crop science for addressing water scarcity</b> Chair: Dr Weili Liang
1600	<b>Breeding crops that do better under water scarcity</b> Breeding for improved drought tolerance in maize – providing hope for Africa's drought-prone environments <b>Dr Marianne Banziger</b> Zimbabwe sponsored by CIMMYT	<b>Farming systems, cropping sequences and monocultures</b> Benefits and mechanisms of crop rotations <b>Dr John Kirkegaard</b> Australia	<b>How can we improve crops by genome sequencing of model systems?</b> Arabidopsis: what can crop breeders learn from a weed? <b>Dr Elizabeth Dennis</b> Australia	<b>Proven processes for facilitating innovation and change</b> The evolution of extension processes and practices in relation to smallholder farming in Southern Africa <b>Dr Tsakani Ngomane</b> South Africa sponsored by USDA-ARS	<b>Irrigated rice-based systems Joint session of the 5ACSC</b> Water productivity in rice-based systems in Asia – variability in space and time <b>Dr David Dawe</b> Philippines sponsored by IRRI
1630	Selection criteria to be taken into account in crops for West African water-limited environments <b>Dr Michael Dingkuhn</b> France sponsored by WA Department of Agriculture	<b>In defense of continuous monoculture</b> <b>Prof R James Cook</b> USA	The rice genome: implications for breeding rice and other cereals <b>Prof Qifa Zhang</b> PR China sponsored by AusAID	Participatory action research: does it work? <b>Dr Jacqueline Ashby</b> Colombia	More rice, less water – integrated approaches for increasing water productivity in irrigated rice-based systems in Asia <b>Dr To Phuc Tuong</b> Philippines sponsored by IRRI
1700	Improving drought tolerance in rainfed rice in Thailand <b>Dr Boonrat Jongdee</b> Thailand sponsored by AusAID	<b>Crop-animal systems: old wine in new bags?</b> <b>Prof Herman van Keulen</b> The Netherlands	Plant pathogens: how can molecular genetic information on plant pathogens assist in breeding disease resistant crops <b>Dr Kim Hammond-Kosack</b> UK sponsored by CRC TPP	What's the future of the computerised decision support system? <b>Dr Peter Hayman</b> Australia	Water saving in rice-wheat systems <b>Dr Liz Humphreys</b> Australia
1730	Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1815–1915	Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Poster Opening Reception</b> sponsored by The Australian Society of Agronomy <b>Hon Henry Palaszczuk</b> Minister for Primary Industries and Fisheries				



# TUESDAY 28 SEPTEMBER 2004

	<p>Venue: Great Hall 1 &amp; 2 (Door 2 or 8)  <b>Plenary: Crop science for a sustainable future</b>            Chair: Prof Ken Cassman  <i>Future crop production systems in a rational world</i> <b>Dr Pedro Sanchez</b> Earth Institute at Columbia University, USA  <i>Nitrogen over-use, under-use and efficiency</i> <b>Dr Jerry Hatfield</b> USDA-ARS National Soil Tilth Laboratory, USA</p>			
	<p>Venue: Great Hall 3 &amp; 4 (Trade Exhibition)  <b>Refreshment Break &amp; Poster Viewing</b> sponsored by <i>International Foundation for Science</i></p>			
0830 0915	<p>Venue: M4  <b>Crop science for addressing water scarcity</b>            Chair: Dr Matthew Reynolds</p>	<p>Venue: M3  <b>Crop science for a sustainable future</b>            Chair: Prof Craig Pearson</p>	<p>Venue: Great Hall 1 &amp; 2 (Door 2 or 8)  <b>Crop science for harnessing genetics</b>  <i>sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)</i>            Chair: Dr Howie Smith</p>	<p>Venue: PI &amp; 2  <b>Crop science for effecting change</b>            Chair: Dr Derek Wilson</p>
1030	<p><b>Can physiological research contribute to increased productivity under water scarcity?</b>  <i>Has extrapolation from biochemistry to crop function worked in increasing productivity under water scarcity?</i>  <b>Prof Bill Davies</b> UK</p>	<p><b>Conservation and reduced tillage systems</b>  <i>Achievements and future challenges in conservation tillage</i>  <b>Dr Drew Lyon</b> USA</p>	<p><b>Understanding and dealing with complexity in the gene to phenotype system</b>  <i>Challenges in studying gene-to-phenotype relationships for complex traits</i>  <b>Dr Mark Cooper</b> USA</p>	<p><b>Turfgrass: the most visible crop</b>  <b>Session of relevance to Turf Grass</b>  <i>Managing turf sustainably</i>  <b>Dr John Cisar</b> USA</p>
1100	<p><b>Root growth maintenance during water deficits: physiology to functional genomics</b>  <b>Prof Robert E Sharp</b> USA sponsored by UWA            Synthesis</p>	<p><b>Direct seeding mulch based cropping systems (DMC) in Latin America</b>  <b>Dr Eric Scopel</b> Brazil sponsored by USDA-ARS  <i>The evolution of no-till farming in Indian rice-wheat cropping system</i>  <b>Prof Ram K Malik</b> India sponsored by AusAID</p>	<p><b>The struggle to exploit nonadditive variance</b>  <b>Assoc Prof Bruce Walsh</b> USA  <i>Modelling gene networks controlling transition to flowering in Arabidopsis</i>  <b>Dr Stephen M Welch</b> USA</p>	<p><b>Exchange of science between turf and field crops: commonalities between turf and field crops and lessons</b>  <b>Dr Ronny Duncan</b> USA  <i>Herbaceous natives for managed environmental and recreational purposes</i>  <b>Dr Peter Martin</b> Australia</p>
1200	<p>Synthesis</p>	<p>Synthesis</p>	<p>Synthesis</p>	<p>Synthesis</p>
1230	<p>Venue: Great Hall 3 &amp; 4 (Trade Exhibition)  <b>Lunch &amp; Poster Viewing</b></p>			
1315– 1345	<p>Venue: M1 &amp; 2  <b>Chinese Crop Society Presentation</b>  <i>Recent advances in crop improvement and management research in China</i>  <b>Mr Ming Lu</b> PR China</p>			

Venue: M4 <b>Crop science for addressing water scarcity</b> Chair: Prof Jacques Wery	Venue: M3 <b>Crop science for a sustainable future</b> Chair: Prof Xuan Vo-Tong sponsored by AusAID	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Dr Howie Smith	Venue: P1 & 2 <b>Crop science for effecting change</b> Chair: Dr Michael Robertson	Venue: M1 & 2 <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Dr John Hamblin
<b>Manipulating dryland cropping systems for effective use of scarce water</b>	<b>Future of Asian cropping systems</b> <b>Joint session of the 5ACSC</b>	<b>Understanding and dealing with complexity in the gene to phenotype system</b>	<b>The role of information technology in enhanced delivery and adoption</b>	<b>Genetic resources of the 21st century</b>
1400 The economics of rainwater harvesting for paddy rice production in semi-arid areas <b>Prof Nuhu Hatibu</b> Kenya	Lowland rice: can yields of lowland rice resume the increases that they showed in the 1980s? <b>Prof Takeshi Horie</b> Japan sponsored by CRC Rice	Linking physiological and genetic controls of leaf growth and development <b>Prof Francois Tardieu</b> France	Linking farmers to information: the role of IT <b>Dr Warwick Easdown</b> Kenya sponsored by ICRAF	Genes and plant breeding in an IPR-led world <b>Prof Michael Blakeney</b> UK
1430 Management of extensive farming systems for drought-prone environments in North America and Australia <b>Dr Thomas Gerik</b> USA	Transforming subsistence cropping <b>Prof Benjavan Rerkasem</b> Thailand sponsored by AusAID	Trait physiology and crop modelling to link phenotype complexity to underlying genetic systems <b>Prof Graeme Hammer</b> Australia	Precision agriculture and site-specific management <b>Prof Achim Dobermann</b> USA	International genetic platform in rice for sharing of genetic resources between public and private sectors to assess gene function and develop products <b>Regents' Prof Ronald L Phillips</b> USA
1500 Water harvesting and supplemental irrigation for improved water productivity of dryland farming systems in North Africa and West Asia <b>Dr Theib Oweis</b> Syrian Arab Republic sponsored by ICARDA	Oil palm achievements and potential <b>Dr Mohd Basri Wahid</b> Malaysia sponsored by USDA-ARS	Utilising approaches to dealing with complexity of the gene to phenotype system in plant breeding programs <b>Dr Fred van Eeuwijk</b> The Netherlands	Interactive DSS for crop production: is there a recipe for success? <b>Dr Peter Stone</b> Australia	Plant genetic resources collections: still an international public good? <b>Dr J Coosje Hoogendoorn</b> Italy sponsored by IPGRI
1530 Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1600–1630 Venue: Great Hall 3 & 4 (Trade Exhibition) <b>Refreshment Break &amp; Poster Viewing</b> sponsored by International Foundation for Science	1600–1620 Venue: M1 & 2 <b>Vavilov-Frankel Fellowship Scheme:</b> Global Overview and Launch in Australia			
1700–1830 Venue: M1 & 2 <b>The CGIAR Challenge Programme: Unlocking Genetic Diversity in Crops for the Resource-Poor – Open Forum</b>				
1800 Venue: The Australian Woolshed <b>5ACSC Dinner</b> sponsored by IIRI				
1930–2130 Venue: P1 & 2 <b>ICASA Open Forum on Crop Modelling and Decision Support Systems</b>				



## WEDNESDAY 29 SEPTEMBER 2004

0800–  
1730 Full Day Technical Tours

## THURSDAY 30 SEPTEMBER 2004

	<p>Venue: Great Hall 1 &amp; 2 (Door 2 or 8)  <b>Plenary: Crop science for effecting change</b>                      Chair: Prof Tim Reeves  <i>Scaling up: how to reach a billion resource-poor farmers in developing countries</i> <b>Dr Raj Paroda</b> ICARDA CAC, Uzbekistan  <i>Crop scientists as change agents</i> <b>Dr Peter Carberry</b> CSIRO Sustainable Ecosystems, Australia</p>			
1000	<p>Venue: Great Hall 3 &amp; 4 (Trade Exhibition)  <b>Refreshment Break &amp; Poster Viewing</b></p>			
0830 0915	<p>Venue: M4  <b>Crop science for addressing water scarcity</b>                      Chair: Professor Peter Stamp</p>	<p>Venue: M1 &amp; 2  <b>Crop science for a sustainable future</b>                      Chair: Dr Collin Piggin</p>	<p>Venue: Great Hall 1 &amp; 2 (Door 2 or 8)  <b>Crop science for harnessing genetics</b>  <i>sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)</i>                      Chair: Dr Greg Rebetzke</p>	<p>Venue: P1 &amp; 2  <b>Crop science for effecting change</b>                      Chair: Dr Andrew Borrell</p>
1030	<p><b>New imperatives for irrigated agriculture</b></p>	<p><b>Biocide dependence and resistance</b></p>	<p><b>Harnessing molecular markers for plant breeding</b></p>	<p><b>Nutrient recycling and balance in cropping systems</b></p>
1100	<p><i>Improving agricultural water use efficiency in arid and semi-arid areas of China</i> <b>Prof Xi-Ping Deng</b> PR China sponsored by AusAID</p>	<p><i>Progress with integrated pest management</i> <b>Dr Gary Fitt</b> Australia</p>	<p><i>Implementation of molecular markers for quantitative traits in breeding programs – challenges and opportunities</i> <b>Dr James Holland</b> USA</p>	<p><i>Managing residues and nutrients of intensive cropping systems</i> <b>Dr Gilles Lemaire</b> France</p>
1130	<p><i>Modernisation and optimisation of irrigation systems to increase water productivity</i> <b>Dr Enrique Playán</b> Spain sponsored by USDA-ARS</p>	<p><i>Glyphosate: a new model for resistance management</i> <b>Dr John Killmer</b> USA</p>	<p><i>Whole genome mapping approaches for Marker Assisted Selection</i> <b>Dr William Niebur</b> USA</p>	<p><i>Progress in lifting soil fertility in Southern Africa</i> <b>Dr Stephen Waddington</b> Zimbabwe</p>
1200	<p>Re-use of effluent water – benefits and risks <b>Dr Simon Toze</b> Australia</p>	<p><i>Herbicide resistance: an imperative for smarter crop weed management</i> <b>Prof Stephen Powles</b> Australia</p>	<p><i>Use of Marker Assisted Selection in a product development breeding program</i> <b>Dr Daria Schmidt</b> USA</p>	<p><i>The role of the private sector in delivery</i> <b>Dr Rashid Bajwa</b> Pakistan sponsored by AusAID</p>
1230	<p>Synthesis</p>	<p>Synthesis</p>	<p>Synthesis</p>	<p>Synthesis</p>
1245– 1345	<p>Venue: Great Hall 3 &amp; 4 (Trade Exhibition)  <b>Lunch &amp; Poster Viewing</b></p>			
1315– 1400	<p>Venue: M1 &amp; 2  <b>International Foundation for Science seminar</b></p>			
	<p>Venue: Great Hall 1 &amp; 2 (Door 2 or 8)  <b>Australian Society of Agronomy Business Meeting</b></p>			

	Venue: M4 <b>5th Asian Crop Science Conference (SACSA) Crop Science for Improving Human Diet in Asia</b> Sponsored by IRR Chair: Dr Leocadio Sebastian sponsored by AusAID <b>Plenary Session</b> Westernisation of Asian diets and the transformation of food systems: implications for science and technology <b>Prof Prabhu Pingali</b> Food & Agriculture Organization, United Nations, Italy <b>Okuno</b> National Institute of Agrobiological Sciences, Japan	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>12th Australian Agronomy Conference (12AAC)</b> Chair: Dr Peter Carberry <b>Plenary Session</b> Donald Oration <b>Dr Tony Fischer</b> ACIAR, Australia Seed of Light Award – GRDC					
1400							
1430							
1500–1510	<b>Delegates move to concurrent session rooms</b>						
	Venue: M4 <b>5ACSA</b> <b>Improving the quality of food in Asia</b> Sponsored by IRR Chair: Dr Ron Cantrell	Venue: M3 <b>5ACSA</b> <b>Diversified cropping systems for Asia</b> Sponsored by IRR Chair: Dr JongGun Won	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>12AAC</b> <b>Pathways to efficient and profitable agriculture</b> Chair: Dr Jeremy Whish	Venue: M1 & 2 <b>12AAC</b> <b>Farming and land stewardship</b> Chair: Mr Richard Routley	Venue: P3 <b>12AAC</b> <b>The benefits and challenges of crop-livestock integration in Australian agriculture</b> Chair: Mr David Lloyd	Venue: P1 & 2 <b>12AAC</b> <b>The imperatives for research implementation and delivery in Australia</b> Chair: Ms Karin Schiller	
1510	Making a greener revolution: a nutrient delivery system for food production to address malnutrition through crop science <b>Dr Craig Meisner</b> Bangladesh	Socio-economic evaluation of hybrid rice production in the Philippines <b>Mrs Fiordeliza H Bordey</b> Philippines sponsored by ACIAR Analysis of special variation of grain yield response to soil chemical properties <b>Prof Byun-Woo Lee</b> South Korea The water balance on sloping land in rainfed lowland rice ecosystem <b>Dr Mitsuru Tsubo</b> Australia	The changing face of agriculture in Australia <b>Mr Neil Clarke</b> Vic	Farming and land stewardship case study – Australia's innovations in sustainable irrigation <b>Dr Colin Creighton</b> ACT	The benefits and challenges of crop-livestock integration in Australian agriculture <b>Prof Mike Ewing</b> WA	The imperatives for research implementation and delivery in Australia <b>Dr Ann Hamblin</b> WA	
1526	Molecular breeding for rainfed lowland rice in the Mekong Region <b>Dr Theerayut Toojinda</b> Thailand						
1542	Combining high protein quality and hard endosperm traits through phenotypic and marker assisted selection in maize <b>Dr Raman Babu</b> India						
1558	Variation in grain iron between seed lots of some upland rice varieties <b>Dr Chanakan Prom-u-thai</b> Thailand						
1614	Morpho-agronomical variation among diverse lentil genotypes (Lens culinaris M.) under rainfed environments in Nepal <b>Miss Renuka Shrestha</b> Nepal sponsored by ACIAR						
1630	Recent advances in marker-assisted selection for drought tolerance in Pearl Millet <b>Dr C Tom Hash</b> India						
1646	WTO and its impact on oilseed economy of India <b>Dr Priya Ranjan Kumar</b> India						
1702	Session concludes						
1705–1830	Venue: M9 <b>Asian Crop Science Association Business Meeting</b>						
1900	Venue: Plaza Ballroom <b>4ICSC Dinner</b>						

# FRIDAY 1 OCTOBER 2004

Venue: Great Hall 1 & 2 (Door 2 or 8)  
**Plenary: Crop science for harnessing genetics sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)**  
 Chair: Prof Don Marshall  
 0830 *GMOs and society* **Dr John Skerritt** ACIAR, Australia  
 0915 *Challenges of integrating conventional breeding and biotechnology* **Prof John Snape** John Innes Centre, UK

Venue: Great Hall 3 & 4 (Trade Exhibition)  
**Refreshment Break & Poster Viewing**

Venue: M3 <b>Crop science for addressing water scarcity</b> <b>Session of relevance to Turf</b> Chair: Dr Peter Martin	Venue: M4 <b>Crop science for a sustainable future</b> Chair: Dr James Jones	Venue: M1 & 2 <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Dr Allan Green	Venue: P1 & 2 <b>Crop science for effecting change</b> Chair: Dr Russell Muchow	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Prof Abraham Blum sponsored by Export Grains Centre
<b>Better management of water and nutrients in turfgrass systems</b>	<b>Managing climate risks in cropping systems</b>	<b>New frontiers in altering plant metabolism</b>	<b>Research planning, monitoring and evaluation to improve impact</b>	<b>New frontiers in enhancing adaptation to abiotic challenges</b>
Can we maintain turf to customers' satisfaction with less water? <b>Prof Robert Carrow</b> USA	How predictable is the climate and how can we use it in managing cropping risks? <b>Dr Holger Meinke</b> Australia Approaches allowing smallholder farmers in India to benefit from seasonal climate forecasting <b>Dr Ramasamy Selvaraju</b> India sponsored by AusAID	Genomic and metabolic approaches to understanding seed oil biosynthesis <b>Dr John Ohlrogge</b> USA Bioindustrial and biopharmaceutical protein products from transgenic plants <b>Dr Elizabeth Hood</b> USA	Agricultural research policies and systems for the developing world <b>Dr Derek Byerlee</b> USA The role of evaluation in successful integrated natural resource management <b>Dr Stephen John Twomlow</b> Zimbabwe sponsored by ICRISAT	Breeding for abiotic stress resistance – challenges and opportunities <b>Prof Eduardo Blumwald</b> USA Markers, genomics and post-genomics approaches – will they assist in selection for drought tolerance? <b>Prof Roberto Tuberosa</b> Italy sponsored by USDA-ARS
Use of saline irrigation and non-potable water in the turfgrass industry <b>Dr Kenneth Marcum</b> USA	Challenges and opportunities for cropping systems in a changing climate <b>Prof Marco Bindi</b> Italy sponsored by USDA-ARS	Bioplastics: developing new biomass crops for an integrated biorefinery <b>Dr Oliver Peoples</b> USA sponsored by CRCSIB	Building science and technological capacity for agriculture: implications for evaluating R&D <b>Prof Phil Pardey</b> USA	Rice – progress and the future in abiotic stress tolerance in Asia <b>Dr Renee Lafitte</b> Philippines sponsored by IRRI
Synthesis	Synthesis	Synthesis	Synthesis	Synthesis

Venue: Great Hall 3 & 4 (Trade Exhibition)  
**Lunch & Poster Viewing**

1230

Venue: M3 <b>Crop science for addressing water scarcity</b> Chair: Dr John Williams	Venue: M4 <b>Crop science for a sustainable future</b> Chair: Dr Peter Jamieson	Venue: M1 & 2 <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Chair: Dr Sarom Men sponsored by AusAID	Venue: P1 & 2 <b>Crop science for effecting change</b> Chair: Dr Siosia Halavatau sponsored by AusAID	Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Crop science for harnessing genetics</b> sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company) Co-Chairs: Drs John Skerritt and Tony Fischer
<b>Environmental consequences of water management in farming systems</b>	<b>Raising yield potential within cropping systems</b>	<b>New frontiers in enhancing adaptation to biotic challenges – successes in Asia</b> <b>Joint session of the 5ACSC</b>	<b>Agents for change: complementary roles of the private and public sector and NGOs</b>	<b>Biotechnology for a better world</b>
1400 Are irrigated farming systems sustainable? <b>Dr Shahbaz Khan</b> Australia	Increasing cereal yield potential by modifying development and growth <b>Dr Maria Otegui</b> Argentina sponsored by USDA-ARS	Sustainable disease and pest resistance in rice: current and future strategies <b>Dr Hei Leung</b> Philippines sponsored by IRRI	Effecting change through private sector client services for smallholders in Africa <b>Dr Joseph Rusike</b> Zimbabwe sponsored by ICRISAT	The case of GMOs in the developing world – how African farmers are benefiting from biotechnology <b>Mrs Muffy Koch</b> South Africa sponsored by USDA-ARS
1430 Fisheries and water productivity in tropical river basins: enhancing food security and livelihoods by managing water for fish <b>Dr Madan Mohran Dey</b> Malaysia sponsored by WorldFish Centre	Increasing yield potential of legume crops – similarities and contrasts with cereals <b>Dr Thomas Sinclair</b> USA	Wheat rust in Asia: meeting the challenges with old and new technologies <b>Dr Ravi Singh</b> Mexico sponsored by CIMMYT	Successful integration of research and extension combining private and public organisations: lessons from Argentina <b>Dr Jorge Gonzalez Montaner</b> Argentina sponsored by USDA-ARS	Plant biotechnology in China – public sector investments and impacts on farmers <b>Prof Jikun Huang</b> PR China sponsored by AusAID
1500 Managing secondary dryland salinity: options and challenges <b>Prof David Pannell</b> Australia	Rice: progress in breaking the yield ceiling <b>Dr Shaobing Peng</b> Philippines sponsored by IRRI	Novel strategies for overcoming pests and diseases in India <b>Dr Usha Zehr</b> India sponsored by AusAID	The power of the farmer group <b>Mr Ian McClelland</b> Australia	The GMO experience in North & South America – where to from here? <b>Dr Greg Traxler</b> USA
1530 Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1600 Session concludes	Session concludes	Session concludes	Session concludes	Session concludes
Venue: Great Hall 1 & 2 (Door 2 or 8) <b>Closing ceremony</b> Chair: Dr Bob Clements	Crop science for a diverse planet: some reflections and projections <b>Prof Tim Reeves</b> Timothy G Reeves & Associates, Australia			
1615				
1640				
1650	Promotion for 5ICSC <b>Prof Ho-jin Lee</b> Korea			
1700	Congress concludes			
1700–1800	<b>Farewell Drinks</b>			