4ICSC

NEW DIRECTIONS FOR A DIVERSE PLANET

Welcome

Dear Delegates

On behalf of the Organising Committee, we take great pleasure in welcoming you to the 4th International Crop Science Congress in Brisbane, Queensland, Australia. New approaches to complement traditional methods are needed in scientific research and implementation to feed an increasing world population, improve quality and develop new plant-based products while sustaining the natural resources that underpin global cropping. The Organising Committee has developed an outstanding program featuring many internationally recognised experts, addressing science and community aspects of New Directions for a Diverse Planet. There is an exciting mix of plenary sessions, symposia, workshops, and poster sessions covering the major international topics in crop science in 2004. The 5th Asian Crop Science Conference and the 12th Australian Agronomy Conference are embedded in the Congress program. We look forward to your lively participation.

Please take advantage of the mid-Congress tours and the social program to learn a little about Queensland's agriculture and strengthen your scientific networks. We know you will enjoy Brisbane in the spring, and if you are participating in Congress tours, or your own pre or post-Congress touring, we hope you take home some great memories of Australia beyond the city limits! We trust you will enjoy your visit and we know you will benefit greatly from your participation.

Dr Bob Clements
Congress President

Dr Ray Shorter
Congress CEO

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Committees

Congress Organising Committee

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Chief Executive Officer
Ray Shorter, CSIRO Plant Industry, QLD

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Eoin Wallis, BSES, QLD

Chair, Program Committee
Russell Muchow, SRDC, QLD

Chair, Publications Committee
Tony Fischer, ACIAR, ACT

Derek Wilson, Poster Subcommittee, Institute for Crop and Food Research, NZ

Chair, Local Arrangements & Tours
Don McNee, Agronomist, QLD

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Ken Fischer, University of Queensland, QLD
John Angus, CSIRO Plant Industry, ACT

President, The Australian Society of Agronomy
Peter Carberry, CSIRO Sustainable Ecosystems, QLD

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Host Societies

Asian Crop Science Association

The Asian Crop Science Association (ACSA) is holding its fifth conference (5ACSC) in association with 4ICSC. ACSA was formed in 1992 and previous conferences were held in South Korea, Japan, Taiwan and the Philippines. ACSA consists of a group of Crop Science and related societies from Asian countries. Details of its structure are on the website (www.asiancropscience.org).

The scientific program for 5ACSC is embedded within the program of 4ICSC and four of the symposia are joint sessions. The fifth is a specific 5ACSC symposium on Thursday afternoon, with the theme 'Crop Science for Improving Human Diet in Asia'. This symposium consists of invited talks and sessions of submitted oral presentations. Everyone attending the Congress can attend any 5ACSC symposium. Posters related to 5ACSC are allocated according to Congress themes.

Two other ACSA activities will be held during the week. One is the conference dinner, a traditionally convivial gathering. This time the dinner is at The Australian Woolshed and has an Aussie barbecue theme.

The other activity is the Business Meeting, scheduled for Thursday at 5.10 pm in Mezzanine Room 9 at the Convention Centre. This meeting is for representatives of all ACSA-member countries, and representatives of Asian countries that are not yet members of ACSA, but are interested in joining. The main business of the meeting is reviewing this conference and planning future conferences.

Secretariat

Co-Presidents:	Dr Ken Fisher and Dr John Angus
Vice-President:	Dr Leocadio Sebastian
Secretary-General:	Dr Andrew Borrell
Committee Member:	Professor Shu Fukai

Current International Committee

Australia:	Drs Ken Fischer, John Angus and Andrew Borrell
Indonesia:	Prof Mansur Ma'shum
Japan:	Professor Makie Kokubun
Korea, South:	Professor Byon-Woo Lee
Malaysia:	To be appointed
Philippines:	Dr Leocadio Sebastian
Taiwan:	Professor Huu-Sheng Lur
Thailand:	Dr Benjavan Rerkasem

New International Committee Members to be appointed in 2004

Bangladesh:	Dr Craig Meisner
Cambodia:	Dr Men Sarom
Myanmar:	Dr U Tun Than
Nepal:	Dr Naba Raj Devkota
Papua New Guinea:	Dr Segei Bang
Sri Lanka:	Dr Buddhi Marambe

The Australian Society of Agronomy

The Australian Society of Agronomy is the professional body for agronomists in Australia. It has more than 300 active members drawn from government, universities, research organisations and the private sector. The primary function of the society is to host a biennial national conference. More information on the society, and its past conferences, can be sourced from www.agronomy.org.au.

The 12th Australian Agronomy Conference is being held in conjunction with the 4th International Crop Science Congress. In addition to the speakers addressing Australian issues within the broader Congress program, a special session on Australian Agriculture is being held on the afternoon of Thursday 30th September 2004. This session is highlighted by a plenary presentation of the Donald Medal and Oration, an award presented to an eminent Australian agronomist.

Concurrent presentations follow which address aspects of the topic "Australian Agriculture – Learning From The Past And Planning For The Future", encompassing the issues:

1. Pathways to efficient and profitable agriculture
2. Farming and land stewardship
3. The benefits and challenges of crop-livestock integration in Australian agriculture
4. The imperatives for research implementation and delivery in Australia

The Australian Society of Agronomy is pleased to be co-hosting the 4th International Crop Science Congress and, as a consequence, trusts that Congress participants will learn more of Australian agriculture and its research achievements.

The current ASA committee includes:

President:	Peter Carberry
Past-President:	Bob Belford
Vice-President:	Len Wade
Secretary:	Karin Schiller
Treasurer:	Erik van Oosterom
Editor:	David Lloyd
Committee Members:	Ingrid Christiansen
	Graeme Hammer
	David Midmore
	Bruce Pengelly
	Richard Routley
	Jeremy Whish

Sponsors

Diamond Sponsors

Australian Government

Australian Centre for International Agricultural Research

The Australian Centre for International Agricultural Research utilises Australia's exceptional scientific skills to contribute to Australia's international development cooperation program through agricultural research partnerships to benefit developing countries. ACIAR collaborates with partner countries in setting priorities and commissioning research to achieve more productive and sustainable agricultural systems that help reduce poverty in the Asia-Pacific region. Crop related research focuses on genetic improvement of crop plants, where appropriate improved crop management, as well as crop protection with an emphasis on bio-security.

GRDC Grains Research & Development Corporation

The Grains Research and Development Corporation's (GRDC) role is to invest in research, development and related activities to benefit Australian graingrowers, the wider grains industry and the Australian community. In doing so, the GRDC invests in research where obstacles to industry's progress exist and where R&D may be effective in overcoming these obstacles. This includes:

- investigating and evaluating the requirements for R&D in the grains industry
- coordinating or funding the carrying out of R&D activities
- facilitating the dissemination, adoption and commercialisation of the results of R&D

Platinum Sponsors

Australian Government

AusAID

The Australian Agency for International Development (AusAID), manages the Australian Government's official overseas aid program. Each year the Australian aid program reaches more than 58 million people living in poverty around the world, with our main focus being on the Asia-Pacific region. AusAID, in conjunction with its partners, implements projects which tackle the causes and consequences of poverty in developing countries. The Australian overseas aid program also responds to humanitarian and emergency relief situations, such as helping the victims of earthquakes or cyclones.

CSIRO

CSIRO's crop science research focuses on discovery of useful genes and gene technologies and the development of profitable and sustainable farming systems. Partnerships with Australia's cropping industries are fundamental to our research which is aimed at reliable and sustainable productivity growth alongside conservation of soil, water and biodiversity resources.

Our research includes:

- Sustainable resource management
- Plant breeding
- Integrated biological pest management
- Industry competitiveness

Queensland Government
Department of **Primary Industries and Fisheries**

The Department of Primary Industries and Fisheries (DPI&F) is focused on achieving profitable primary industries that create jobs, support regional communities, expand exports and drive economic growth for Queensland. DPI&F is proud to sponsor the 4th International Crop Science Congress as it supports the department's world-leading research on improving crops' genetic potential, integrating pest management and developing farming systems which are linked to the cropping industries' priorities of sustainable use of natural resources and long-term profitability along the value chain.

PIONEER®
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Pioneer Hi-Bred International, Inc., a subsidiary of DuPont, is the world's leading source of customized solutions for farmers, livestock producers, and grain and oilseed processors. With headquarters in Des Moines, Iowa, Pioneer provides access to advanced plant genetics, crop protection solutions, and quality crop systems to customers in nearly 70 countries. DuPont is a science company, delivering science-based solutions in food and nutrition, health care, apparel, home and construction, electronics and transportation that make a difference in people's lives.

Gold Sponsors

IRRI
International Rice Research Institute

The International Rice Research Institute (IRRI) is an autonomous, non-profit, agricultural research and training organization with offices in more than ten nations. The Institute's main goal is to find sustainable ways to improve the well-being of present and future generations of poor rice farmers and consumers while at the same time protecting the environment. Most of IRRI's research is done in cooperation with the national agricultural research and development institutions, farming communities, and other organizations of the world's rice producing nations.

USDA

The Agricultural Research Service is the principal scientific research agency of the U.S. Department of Agriculture. ARS provides access to agricultural information and develops new knowledge to solve technical agricultural problems of broad scope and high national priority. ARS' 22 national research programs and more than 1,200 research projects are structured to ensure availability of high-quality safe food and other agricultural products, sustain a competitive and viable food and agricultural economy, and maintain a quality environment and natural resource base.

Sponsors

Silver Sponsors

The Australian Society of Agronomy is the professional body for agronomists in Australia. In 2004, the ASA departed from its conventional biennial national conference by incorporating the 12th Australian Agronomy Conference within the 4th International Crop Science Congress. Consequently, the ASA was pleased to provide financial and in-kind support for the organisation of the Congress. In 2006, the 13th Australian Agronomy Conference will be held in Western Australia.

CIMMYT

The International Maize and Wheat Improvement Center (CIMMYT) is an international, not-for-profit research and training organization that, together with partners in over 100 developing countries, conducts maize and wheat research to benefit the developing world. The center's outputs and services include improved crop varieties and cropping systems, the conservation of maize and wheat genetic resources, and capacity building. Support for CIMMYT's work comes from the members of the Consultative Group on International Agricultural Research (CGIAR), national governments, foundations, development banks, and other public and private agencies.

THE UNIVERSITY OF WESTERN AUSTRALIA

Department of Agriculture
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Grain Growers

ICARDA

ICRISAT

IFS INTERNATIONAL FOUNDATION FOR SCIENCE

IPGRI

IWMI International Water Management Institute

MPB CRC

RICE CRC

SARDI
SOUTH AUSTRALIAN RESEARCH AND DEVELOPMENT INSTITUTE

World Agroforestry Centre
TRANSFORMING LIVES AND LANDSCAPES

WorldFish CENTER

Acknowledgements

Elsevier

Plenary Speakers

Peter S Carberry is a Senior Principal Research Scientist with CSIRO Sustainable Ecosystems in Australia. He leads the CSIRO team based with the Agricultural Production Systems Research Unit (APSRU) in Toowoomba. His disciplinary expertise is in crop physiology, and in the development and application of systems simulation models – he has been a key developer of the APSIM cropping systems model. In more recent times he has led major RDE projects aimed at increasing the participation of farmers and advisers in research. His current interests lie in working closely with proactive farmer groups around Australia to improve the relevance of science and the rigour of on-farm research. Over the past 20 years he has also been involved in development projects in India and Africa, the emphasis of which has been on soil fertility management and farming systems research.

Hon Tim Fischer FTSE is a former Army Officer, former NSW State Parliamentarian, former Leader of the National Party, Minister for Trade & Deputy Prime Minister, now Consultant and Company Director and multiple Patron. Tim is the author of three successful books, and has a number of works in progress. In relation to honorary activities, Mr Fischer has accepted positions including the following: Chair of the Crawford Fund for International Agricultural Research; Chair of Tourism Australia; Chair of the Australian Winemakers Foundation; National Patron of Frontier Services; Patron of various charitable organisations. Some of Mr Fischer's commercial activities include the following: consultant Deloittes and NCR Teradata; Director of the AA Company and Ausmore; Ambassador to The Australia Made campaign; envoy to Adelaide-Darwin Railway.

Jerry L Hatfield is the Laboratory Director of the USDA-ARS National Soil Tilth Laboratory in Ames, Iowa. His research interests focus on the interaction of water, nutrients, carbon, and light in the response of crops to management systems across varying landscapes. He is a Fellow of the American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America and recipient of the A.S. Flemming Award for Outstanding Federal service, an ARS Outstanding Scientist of the Year, and received the Distinguished Service Award in Agriculture from Kansas State University. He is the author of over 300 refereed publications and the editor of ten monographs.

Most of **Michael Lipton's** career has been at Sussex University, starting as one of seven teacher-researchers in its first year, 1961-2. He was Reader, then Professorial Fellow, at the Institute of Development Studies in 1967-94. In the 1970s he headed a comparative analysis of village studies from developing countries, leading to books on migration, labour use, and nutrition. Since 1994 he has been Research Professor at Sussex University's Poverty Research Unit, which he founded. He is now coordinating an EU study of the impact of land and asset distribution on fertility, migration and environment in drylands. Honours include the Webb Medley Economics Prize, Oxford (1959) and the Dudley Seers Memorial Prize (with Robert Eastwood, 2001).

Yanhua Liu holds a DPhil from the Chinese Academy of Sciences and a Masters degree, majoring in Geography, from The Netherlands. Since 2001 he has held the position of Vice Minister, Chinese Ministry of Science and Technology, and prior to that was Director-General, Department of Rural and Social Development, Ministry of Science and Technology. Dr Liu has been a member of the Science Committee of the International Decade of Natural Disaster Reduction since 1997, and was a member of the ACIAR Policy Advisory Council from 2000-2003. From 1993 to the present Dr Liu has been the Chinese Coordinator, "Capability building of integrated agricultural development in the Tibetan mountainous district" cooperation project, for the International Center for Integrated Mountain Development (ICIMOD, Kathmandu, Nepal). In 1996 Dr Liu received an Award for Outstanding Scientist from the Chinese Academy of Sciences. Dr Liu has contributed to many scientific publications.

Raj Paroda, an accomplished Plant Breeder and Geneticist, had led the Indian National Agricultural Research System as Director General, ICAR and Secretary, DARE, for the Government of India from 1994-2001. He was responsible for the establishment of one of the largest Gene Banks in the world. He has several Honorary DSc degrees including one from University of Ohio, and he is Fellow of Agricultural Academies of India, Russia, Georgia, Armenia, Tajikistan and TWAS. Dr Paroda served as Chairman, GFAR and he has been the Executive Secretary of APAARI since 1991. He has served as a member of the Board of IRRI, CABI, ACIAR and also as Chairman of the ICRISAT Board. He was also a member of the CGIAR Finance Committee. He has more than 200 research papers and 15 books and proceedings to his credit. He was the Executive Chairman for the second ICSC held in New Delhi in 1996.

John Passioura has worked as a soil scientist and crop physiologist in CSIRO Plant Industry for many years. His research has mainly concerned the water economy of plants: how they extract water from the soil, how they use that water in fixing carbon and converting it into biomass, and how they convert that biomass into grain. He has addressed these questions from genetic, agronomic, and physiological points of view. Latterly he has been concerned with the flows of water beyond the reach of crop roots that can lead to hydrologic imbalance and other environmental difficulties.

Tim Reeves has worked for 37 years in agricultural research, development and extension, mostly focused on sustainable agriculture in Australia and overseas. His professional career includes positions in the Department of Agriculture, Victoria; Foundation Professor of Sustainable Agricultural Production, Adelaide University (1992-95) and Director General, International Maize and Wheat Improvement Center (CIMMYT) based in Mexico (1995-2002). Current activities include: Member, United Nations Millennium Project Task Force on Hunger; Chair, NSW Agricultural Advisory Council on Gene Technology; Member, European Commission Expert Group – Evaluation of Framework Projects; Chair, Academic Advisory Board on International Community and Development Studies, and Adjunct Professor, Deakin University; Affiliate Professor, Adelaide University; and Professorial Fellow, Melbourne University; Chair, Board, Joint Centre for Crop Innovation, Melbourne University. Tim Reeves has received several international and national honours. He is a Fellow of the Academy of Technological Sciences and Engineering and in 2003 received the Centenary of Federation Medal. He has published extensively. Tim Reeves is currently Director and Principal of Timothy G. Reeves and Assoc. Pty Ltd, specialising in national and international consulting in agricultural research and development.

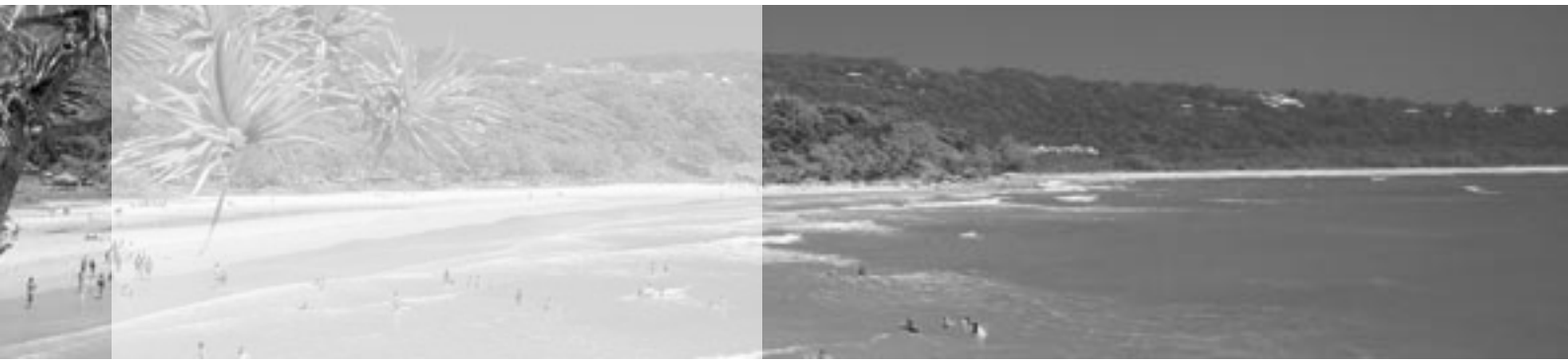
Frank Rijsberman is the Director General of the International Water Management Institute (IWMI), headquartered in Colombo, Sri Lanka since August 2000. IWMI is an international research center supported by the Consultative Group on International Agricultural Research (CGIAR). He is a Professor at the IHE in Delft, The Netherlands. Frank Rijsberman earned his PhD in Water Resources Planning & Management from Colorado State University, USA. He has 20 years of experience as a natural resources planner for fresh water resources, coastal zones, soil erosion, and environmental management.

Pedro Sanchez, the 2002 World Food Prize laureate, is Director of Tropical Agriculture and Senior Research Scholar at the Earth Institute of Columbia University in New York City. He also serves as coordinator of the Hunger Task Force of the United Nations' Millennium Development Project. Sanchez served as Director General of the World Agroforestry Center (ICRAF) headquartered in Nairobi, Kenya from 1991-2001. Sanchez is author of *Properties and Management of Soils of the Tropics* (rated among the top 10 best-selling books in soil science worldwide), and author of over 200 scientific publications. He has received decorations from the governments of Colombia and Peru and was awarded the International Soil Science Award and the International Service in Agronomy Award.

John Skerritt has been Deputy Director of the Australian Centre for International Agricultural Research, part of the Australian Government Overseas Development Assistance program, since early 1999. He is responsible for managing the Centre's Research, Development and Training Programs, overseeing activities within ACIAR's 12 research and training program areas. The programs develop, monitor and evaluate projects to deliver solutions against identified agricultural and natural resource management problems of developing countries. Dr Skerritt has a University Medal and PhD from the University of Sydney. He was Rotary Foundation Fellow at the University of Michigan, USA, prior to joining CSIRO in 1983. During this time he worked in Sydney and Canberra, advancing to the position of Senior Principal Research Scientist and Program Leader at the Quality Wheat Cooperative Research Centre. Dr Skerritt has won the Edgeworth David Medal of the Royal Society, the Murex Diagnostics Award and the Wasserman Memorial International Biotechnology Research Award in Cereal Science.

John Snape is Head of the Department of Crop Genetics at the John Innes Centre, Norwich, UK, with a background of nearly thirty years research on cereal genetics and biotechnology. Following a PhD in quantitative genetics, Professor Snape joined the Plant Breeding Institute in Cambridge and developed a programme to understand the inheritance of important agronomic traits in wheat. He advises the Home Grown Cereals Authority and the Department for Environment, Food and Rural Affairs (DEFRA) on UK strategy concerned with plant breeding and genetics. He was the recipient of the 2001 Royal Agricultural Society of England Gold Medal for research, which is given for outstanding contributions to UK agricultural research.

M S Swaminathan has been acclaimed by TIME magazine as one of the twenty most influential Asians of the 20th century and one of the only three from India, the other two being Mahatma Gandhi and Rabindranath Tagore. He has been described by the United Nations Environment Programme as "the Father of Economic Ecology" and by Javier Perez de Cuellar, former Secretary General of the United Nations, as "a living legend who will go into the annals of history as a world scientist of rare distinction". A plant geneticist by training, Professor Swaminathan's advocacy of sustainable agriculture leading to an ever-green revolution makes him an acknowledged world leader in the field of sustainable food security. Professor Swaminathan was awarded the Ramon Magsaysay Award for Community Leadership in 1971, the Albert Einstein World Science Award in 1986, and the first World Food Prize in 1987.



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 **Registration opens**
1800–1930	Venue: Great Hall 3 & 4 (Trade Exhibition) **Welcome Reception and Exhibition Opening**

MONDAY 27 SEPTEMBER 2004

	Venue: Great Hall 1 & 2 (Door 2 or 8) **Official opening** Chair: Dr Bob Clements
0900	**Dr C Jerry Nelson** President, International Crop Science Society, USA **Hon Tim Fischer FTSE** Chairman, Crawford Fund; Chairman, Tourism Australia; farmer; author; and former Deputy Prime Minister of Australia
0930	**Plenary: Crop science for a diverse planet** *Stocktake on cropping and crop science for a diverse planet* **Prof M S Swaminathan** M S Swaminathan Research Foundation, India *sponsored by USDA-ARS*
1015	Venue: Great Hall 3 & 4 (Trade Exhibition) **Refreshment Break** *sponsored by SARDI*
	Venue: Great Hall 1 & 2 (Door 2 or 8) **Plenary: Crop science for a diverse planet** Chair: Dr Bob Clements
1100	*Science and technology: the essential way to keep sustainable development of world agriculture and trade* **Dr Yanhua Liu** Vice Minister, Ministry of Science & Technology, PR China
1145	*Crop science, rural poverty, and the family farm in a globalising world* **Prof Michael Lipton** Sussex University, UK
1230	*Crawford Fund launch of "The Burning of the Rice", a book by Dr Don Puckridge* **Hon Tim Fischer FTSE** Chairman, Crawford Fund
1240	Venue: Great Hall 3 & 4 (Trade Exhibition) **Lunch**
	Venue: Great Hall 1 & 2 (Door 2 or 8) **Plenary: Crop science for addressing water scarcity** Chair: Prof Hubert Spiertz
1400	*Water scarcity – fact or fiction?* **Prof Frank Rijsberman** IWMI, Sri Lanka *sponsored by IWMI*
1445	*Increasing the water productivity of scarce water – from genetics to field management* **Dr John Passioura** 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) **Refreshment Break** *sponsored by SARDI*				
	Venue: M4 **Crop science for addressing water scarcity** Chair: Dr Salvatore Ceccarelli	Venue: M3 **Crop science for a sustainable future** Chair: Prof Olaf Christen	Venue: Great Hall 1 & 2 (Door 2 or 8) **Crop science for harnessing genetics** *sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)* Chair: Dr Thomas Higgins	Venue: P1 & 2 **Crop science for effecting change** Chair: Prof Beth Woods	Venue: M1 & 2 **Crop science for addressing water scarcity** Chair: Dr Weili Liang
	Breeding crops that do better under water scarcity	**Farming systems, cropping sequences and monocultures**	**How can we improve crops by genome sequencing of model systems?**	**Proven processes for facilitating innovation and change**	**Irrigated rice-based systems Joint session of the 5ACSC**
1600	*Breeding for improved drought tolerance in maize – providing hope for Africa's drought-prone environments* **Dr Marianne Banziger** Zimbabwe *sponsored by CIMMYT*	*Benefits and mechanisms of crop rotations* **Dr John Kirkegaard** Australia	*Arabidopsis: what can crop breeders learn from a weed?* **Dr Elizabeth Dennis** Australia	*The evolution of extension processes and practices in relation to smallholder farming in Southern Africa* **Dr Tsakani Ngomane** South Africa *sponsored by USDA-ARS*	*Water productivity in rice-based systems in Asia – variability in space and time* **Dr David Dawe** Philippines *sponsored by IRRI*
1630	*Selection criteria to be taken into account in crops for West African water-limited environments* **Dr Michael Dingkuhn** France *sponsored by WA Department of Agriculture*	*In defense of continuous monoculture* **Prof R James Cook** USA	*The rice genome: implications for breeding rice and other cereals* **Prof Qifa Zhang** PR China *sponsored by AusAID*	*Participatory action research: does it work?* **Dr Jacqueline Ashby** Colombia	*More rice, less water – integrated approaches for increasing water productivity in irrigated rice-based systems in Asia* **Dr To Phuc Tuong** Philippines *sponsored by IRRI*
1700	*Improving drought tolerance in rainfed rice in Thailand* **Dr Boonrat Jongdee** Thailand *sponsored by AusAID*	*Crop-animal systems: old wine in new bags?* **Prof Herman van Keulen** The Netherlands	*Plant pathogens: how can molecular genetic information on plant pathogens assist in breeding disease resistant crops* **Dr Kim Hammond-Kosack** UK *sponsored by CRC TPP*	*What's the future of the computerised decision support system?* **Dr Peter Hayman** Australia	*Water saving in rice-wheat systems* **Dr Liz Humphreys** Australia
1730	Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1815–1915	Venue: Great Hall 3 & 4 (Trade Exhibition) **Poster Opening Reception** *sponsored by The Australian Society of Agronomy* **Hon Henry Palaszczuk** Minister for Primary Industries and Fisheries				

TUESDAY 28 SEPTEMBER 2004

	Venue: Great Hall 1 & 2 (Door 2 or 8) **Plenary: Crop science for a sustainable future** Chair: Prof Ken Cassman				
0830	*Future crop production systems in a rational world* **Dr Pedro Sanchez** Earth Institute at Columbia University, USA				
0915	*Nitrogen over-use, under-use and efficiency* **Dr Jerry Hatfield** USDA-ARS National Soil Tilth Laboratory, USA				
	Venue: Great Hall 3 & 4 (Trade Exhibition)				
1000	**Refreshment Break & Poster Viewing** *sponsored by International Foundation for Science*				
	Venue: M4 **Crop science for addressing water scarcity** Chair: Dr Matthew Reynolds	Venue: M3 **Crop science for a sustainable future** Chair: Prof Craig Pearson	Venue: Great Hall 1 & 2 (Door 2 or 8) **Crop science for harnessing genetics** *sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)* Chair: Dr Howie Smith	Venue: P1 & 2 **Crop science for effecting change** Chair: Dr Derek Wilson	Venue: M1 & 2 **Crop science for a sustainable future** Chair: Dr Robert Shearman
	Can physiological research contribute to increased productivity under water scarcity?	**Conservation and reduced tillage systems**	**Understanding and dealing with complexity in the gene to phenotype system**	**Implementing purposeful change – lessons for the future**	**Turfgrass: the most visible crop Session of relevance to Turf Grass**
1030	*Has extrapolation from biochemistry to crop function worked in increasing productivity under water scarcity?* **Prof Bill Davies** UK	*Achievements and future challenges in conservation tillage* **Dr Drew Lyon** USA	*Challenges in studying gene-to-phenotype relationships for complex traits* **Dr Mark Cooper** USA	*Successes and lessons from the CGIAR experience* **Dr John Lynam** Kenya	*Managing turf sustainably* **Dr John Cisar** USA
1100	*The use of physiological traits in the development of new cultivars for water-scarce environments* **Dr Richard Richards** Australia	*Direct seeding mulch based cropping systems (DMC) in Latin America* **Dr Eric Scopel** Brazil *sponsored by USDA-ARS*	*The struggle to exploit nonadditive variance* **Assoc Prof Bruce Walsh** USA	*The case of using mass media: communication and behaviour change in resource management* **Dr Monina Escalada** Philippines *sponsored by IRRI*	*Exchange of science between turf and field crops: commonalities between turf and field crops and lessons* **Dr Ronny Duncan** USA
1130	*Root growth maintenance during water deficits: physiology to functional genomics* **Prof Robert E Sharp** USA *sponsored by UWA*	*The evolution of no-till farming in Indian rice-wheat cropping system* **Prof Ram K Malik** India *sponsored by AusAID*	*Modelling gene networks controlling transition to flowering in Arabidopsis* **Dr Stephen M Welch** USA	*Research's contribution to the evolution of the Australian cotton industry* **Dr Greg Constable** Australia	*Herbaceous natives for managed environmental and recreational purposes* **Dr Peter Martin** Australia
1200	Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
	Venue: Great Hall 3 & 4 (Trade Exhibition)				
1230	**Lunch & Poster Viewing**				
	Venue: M1 & 2				
1315–1345	**Chinese Crop Society Presentation** *Recent advances in crop improvement and management research in China* **Mr Ming Lu** PR China				

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

1600–1630	Venue: Great Hall 3 & 4 (Trade Exhibition) **Refreshment Break & Poster Viewing** *sponsored by International Foundation for Science*	1600–1620 Venue: M1 & 2 **Vavilov-Frankel Fellowship** Scheme: Global Overview and Launch in Australia
1700–1830	Venue: M1 & 2 **The CGIAR Challenge Programme: Unlocking Genetic Diversity in Crops for the Resource-Poor – Open Forum**	
1800	Venue: The Australian Woolshed **5ACSC Dinner** *sponsored by IRRI*	
1930–2130	Venue: P1 & 2 **ICASA Open Forum on Crop Modelling and Decision Support Systems**	

WEDNESDAY 29 SEPTEMBER 2004

0800–1730	Full Day Technical Tours

THURSDAY 30 SEPTEMBER 2004

	Venue: Great Hall 1 & 2 (Door 2 or 8) **Plenary: Crop science for effecting change** Chair: Prof Tim Reeves				
0830	*Scaling up: how to reach a billion resource-poor farmers in developing countries* **Dr Raj Paroda** ICARDA CAC, Uzbekistan				
0915	*Crop scientists as change agents* **Dr Peter Carberry** CSIRO Sustainable Ecosystems, Australia				
1000	Venue: Great Hall 3 & 4 (Trade Exhibition) **Refreshment Break & Poster Viewing**				
	Venue: M4 **Crop science for addressing water scarcity** Chair: Professor Peter Stamp	Venue: M1 & 2 **Crop science for a sustainable future** Chair: Dr Colin Piggin	Venue: Great Hall 1 & 2 (Door 2 or 8) **Crop science for harnessing genetics** *sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)* Chair: Dr Greg Rebetzke	Venue: P1 & 2 **Crop science for effecting change** Chair: Dr Andrew Borrell	Venue: M3 **Crop science for a sustainable future** Chair: Professor Mansur Ma'shum *sponsored by AusAID*
	New imperatives for irrigated agriculture	**Biocide dependence and resistance**	**Harnessing molecular markers for plant breeding**	**New pathways for delivery in Asian countries** **Joint session of the 5ACSC**	**Nutrient recycling and balance in cropping systems**
1030	*Improving agricultural water use efficiency in arid and semi-arid areas of China* **Prof Xi-Ping Deng** PR China *sponsored by AusAID*	*Progress with integrated pest management* **Dr Gary Fitt** Australia	*Implementation of molecular markers for quantitative traits in breeding programs – challenges and opportunities* **Dr James Holland** USA	*Knowledge sharing and distance learning for sustainable agriculture in the Asia Pacific region* **Miss Buenafe Abdon** Thailand *sponsored by AusAID*	*Managing residues and nutrients of intensive cropping systems* **Dr Gilles Lemaire** France
1100	*Modernisation and optimisation of irrigation systems to increase water productivity* **Dr Enrique Playán** Spain *sponsored by USDA-ARS*	*Glyphosate: a new model for resistance management* **Dr John Killmer** USA	*Whole genome mapping approaches for Marker Assisted Selection* **Dr William Niebur** USA	*Extension policy at the national level in Asia* **Dr Rasheed S Vadakkel** India *sponsored by AusAID*	*Progress in lifting soil fertility in Southern Africa* **Dr Stephen Waddington** Zimbabwe
1130	*Re-use of effluent water – benefits and risks* **Dr Simon Toze** Australia	*Herbicide resistance: an imperative for smarter crop weed management* **Prof Stephen Powles** Australia	*Use of Marker Assisted Selection in a product development breeding program* **Dr Daria Schmidt** USA	*The role of the private sector in delivery* **Dr Rashid Bajwa** Pakistan *sponsored by AusAID*	*Nutrients in organic farming* **Dr Holger Kirchmann** Sweden
1200	Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1230	Venue: Great Hall 3 & 4 (Trade Exhibition) **Lunch & Poster Viewing**				
1245–1345	Venue: M1 & 2 **International Foundation for Science seminar**				
1315–1400	Venue: Great Hall 1 & 2 (Door 2 or 8) **Australian Society of Agronomy Business Meeting**				

	Venue: M4 **5th Asian Crop Science Conference (5ACSA)** **Crop Science for Improving Human Diet in Asia** *Sponsored by IRRI* Chair: Dr Leocadio Sebastian *sponsored by AusAID*		Venue: Great Hall 1 & 2 (Door 2 or 8) **12th Australian Agronomy Conference (12AAC)** Chair: Dr Peter Carberry			
	Plenary Session		**Plenary Session**			
1400	*Westernisation of Asian diets and the transformation of food systems: implications for science and technology* **Prof Prabhu Pingali** Food & Agriculture Organization, United Nations, Italy		*Donald Oration* **Dr Tony Fischer** ACIAR, Australia *Seed of Light Award* – GRDC			
1430	*Germplasm enhancement and breeding strategies for crop quality* **Dr Kazutoshi Okuno** National Institute of Agrobiological Sciences, Japan					
1500–1510 **Delegates move to concurrent session rooms**						
	Venue: M4 **5ACSA** **Improving the quality of food in Asia** *Sponsored by IRRI* Chair: Dr Ron Cantrell	Venue: M3 **5ACSA** **Diversified cropping systems for Asia** *Sponsored by IRRI* Chair: Dr JongGun Won	Venue: Great Hall 1 & 2 (Door 2 or 8) **12AAC** **Pathways to efficient and profitable agriculture** Chair: Dr Jeremy Whish	Venue: M1 &2 **12AAC** **Farming and land stewardship** Chair: Mr Richard Routley	Venue: P3 **12AAC** **The benefits and challenges of crop-livestock integration in Australian agriculture** Chair: Mr David Lloyd	Venue: P1 &2 **12AAC** **The imperatives for research implementation and delivery in Australia** Chair: Ms Karin Schiller
1510	*Making a greener revolution: a nutrient delivery system for food production to address malnutrition through crop science* **Dr Craig Meisner** Bangladesh	*Socio-economic evaluation of hybrid rice production in the Philippines* **Mrs Flordeliza H Bordey** Philippines *sponsored by ACIAR*	*The changing face of agriculture in Australia* **Mr Neil Clarke** Vic	*Farming and land stewardship case study – Australia's innovations in sustainable irrigation* **Dr Colin Creighton** ACT	*The benefits and challenges of crop-livestock integration in Australian agriculture* **Prof Mike Ewing** WA	*The imperatives for research implementation and delivery in Australia* **Dr Ann Hamblin** WA
1526	*Molecular breeding for rainfed lowland rice in the Mekong Region* **Dr Theerayut Toojinda** Thailand	*Analysis of special variation of grain yield response to soil chemical properties* **Prof Byun-Woo Lee** South Korea	*A long-term view of Australian agriculture: history, future and lessons* **Dr Michael Dunlop** ACT	*Fallow management affects the risk of deep water loss* **Dr Kirsten Verburg** ACT	*Grain-Graze as sustainable farming systems in sub-tropical Queensland* **Dr Anthony Whitbread** Qld	*Visualising the yield space for wheat production in the eastern wheatbelt of Western Australia* **Dr Doug Abrecht** WA
1542	*Combining high protein quality and hard endosperm traits through phenotypic and marker assisted selection in maize* **Dr Raman Babu** India	*The water balance on sloping land in rainfed lowland rice ecosystem* **Dr Mitsuru Tsubo** Australia	*Removing soil compaction and increasing water use efficiency* **Mr Rick Darling** SA	*Risk assessment of climate change impacts on Australia's wheat industry* **Dr Mark Howden** ACT	*Developing sustainable fodder cropping systems with annual pasture legumes* **Dr Anyou Liu** WA	*Knowledge and learning in the Australian cotton industry* **Ingrid Christiansen** Qld
1558	*Variation in grain iron between seed lots of some upland rice varieties* **Dr Chanakan Prom-u-thai** Thailand	*A survey of tropical species for boron retranslocation* **Miss Sawika Konsaeng** Thailand	*New ascochyta blight resistant, high quality kabuli chickpea varieties for Australia* **Prof Kadambot Siddique** WA	*Boron tolerance of lentil – highlights of a research program* **Ms Kristy Hobson** Vic	*The whole-farm impact of including dual-purpose winter wheat and forage brassica crops in a grazing system: a simulation analysis* **Dr Andrew Moore** ACT	*Evaluation and practice change: a private and public sector collaboration* **Mr Evan Ryan** Vic
1614	*Morpho-agronomical variation among diverse lentil genotypes (Lens culinaris M.) under rainfed environments in Nepal* **Miss Renuka Shrestha** Nepal *sponsored by ACIAR*	*Soil management systems improve water use efficiency of rainfed rice in the semi-arid tropics of Southern Lombok, Eastern Indonesia* **Mr Mahrup Mahrup** Indonesia	*Simulating companion cropping farming systems in Australia* **Dr Michael Robertson** Qld	*Simulation of nitrogen management in trash-blanketed sugarcane systems* **Dr Peter Thorburn** Qld	*Genetic improvement of strand medic for Australian farming systems* **Dr Ram Nair** SA	*No-till adoption in Southern Australian farming systems* **Mr Francis D'Emden** WA
1630	*Recent advances in marker-assisted selection for drought tolerance in Pearl Millet* **Dr C Tom Hash** India	*Palm pulverisation in sustainable oil palm replanting* **Mr Ling-Hoak Ooi** Malaysia				
1646	*WTO and its impact on oilseed economy of India* **Dr Priya Ranjan Kumar** India	*Increased fish from the seasonally flooded rice fields in Bangladesh and Vietnam* **Dr Madan Mohran Dey** Malaysia				
1702	Session concludes	Session concludes	1700 Session concludes	Session concludes	Session concludes	Session concludes
1705–1830	Venue: M9 **Asian Crop Science Association Business Meeting**					
1900	Venue: Plaza Ballroom **4ICSC Dinner**					

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				
1000	Venue: Great Hall 3 & 4 (Trade Exhibition) **Refreshment Break & Poster Viewing**				
	Venue: M3 **Crop science for addressing water scarcity** **Session of relevance to Turf** Chair: Dr Peter Martin	Venue: M4 **Crop science for a sustainable future** Chair: Dr James Jones	Venue: M1 & 2 **Crop science for harnessing genetics** *sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)* Chair: Dr Allan Green	Venue: P1 & 2 **Crop science for effecting change** Chair: Dr Russell Muchow	Venue: Great Hall 1 & 2 (Door 2 or 8) **Crop science for harnessing genetics** *sponsored by Pioneer-Hi-Bred International, Inc (A DuPont Company)* Chair: Prof Abraham Blum *sponsored by Export Grains Centre*
	Better management of water and nutrients in turfgrass systems	**Managing climate risks in cropping systems**	**New frontiers in altering plant metabolism**	**Research planning, monitoring and evaluation to improve impact**	**New frontiers in enhancing adaptation to abiotic challenges**
1030	*Can we maintain turf to customers' satisfaction with less water?* **Prof Robert Carrow** USA	*How predictable is the climate and how can we use it in managing cropping risks?* **Dr Holger Meinke** Australia	*Genomic and metabolic approaches to understanding seed oil biosynthesis* **Dr John Ohlrogge** USA	*Agricultural research policies and systems for the developing world* **Dr Derek Byerlee** USA	*Breeding for abiotic stress resistance – challenges and opportunities* **Prof Eduardo Blumwald** USA
1100	*Optimising water and nutrient management for turf grown on sandy soils* **Dr Louise Barton** Australia	*Approaches allowing smallholder farmers in India to benefit from seasonal climate forecasting* **Dr Ramasamy Selvaraju** India *sponsored by AusAID*	*Bioindustrial and biopharmaceutical protein products from transgenic plants* **Dr Elizabeth Hood** USA	*The role of evaluation in successful integrated natural resource management* **Dr Stephen John Twomlow** Zimbabwe *sponsored by ICRISAT*	*Markers, genomics and post-genomics approaches – will they assist in selection for drought tolerance?* **Prof Roberto Tuberosa** Italy *sponsored by USDA-ARS*
1130	*Use of saline irrigation and non-potable water in the turfgrass industry* **Dr Kenneth Marcum** USA	*Challenges and opportunities for cropping systems in a changing climate* **Prof Marco Bindi** Italy *sponsored by USDA-ARS*	*Bioplastics: developing new biomass crops for an integrated biorefinery* **Dr Oliver Peoples** USA *sponsored by CRCSIIB*	*Building science and technological capacity for agriculture: implications for evaluating R&D* **Prof Phil Pardey** USA	*Rice – progress and the future in abiotic stress tolerance in Asia* **Dr Renee Lafitte** Philippines *sponsored by IRRI*
1200	Synthesis	Synthesis	Synthesis	Synthesis	Synthesis
1230	Venue: Great Hall 3 & 4 (Trade Exhibition) **Lunch & Poster Viewing**				

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

Notes

CSIRO applies strategic crop science research with a focus on improving yield and quality of crops and the long-term sustainability of farming systems.

Partnerships with Australia's cropping industries are a fundamental part of our research.

Our research includes:

- Sustainable resource management
- Plant breeding
- Integrated biological pest management
- Industry competitiveness

CSIRO

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CSIRO is proud to be a sponsor of the

4th International Crop Science Congress

The State of the crop

Queensland, Australia's Smart State, with 3.6 million people may have a small population by world standards, yet we currently produce enough food every year for about 35 million people—roughly ten times our population. But with a world population estimated to increase by 2.7 billion by 2050, the global challenge for food producing countries, and for all governments and crop and food scientists, is monumental.

The Queensland Government has the largest group of scientists working in crop genetics, modelling and research, biotechnology, climate research, integrated pest management and environmental sustainability, product customisation and biosecurity in the southern hemisphere. This world-class R&D group is part of the Department of Primary Industries and Fisheries and a core component of the Queensland Government's Smart State Strategy.

Smart State initiatives in science, research and innovation, along with strategic investments in cutting-edge R&D infrastructure and programs, are expanding exports and generating new jobs and economic opportunities and driving the productivity, profitability and sustainability of Queensland's crop and other primary industries.

The Queensland Government, through the Department of Primary Industries and Fisheries, welcomes all delegates to the 4th International Crop Science congress and confirms our commitment to building networks, collaboration and partnerships between governments, scientists and industry to address global challenges.

Queensland Government
Department of **Primary Industries and Fisheries**

Social & Mid-Congress Technical Tour Program

Activities & Tours – Overview

Date	Time	Activity	Location	Instructions	Transfers
Sunday 26 September	1800 to 1930 hrs	Welcome Reception & Exhibition Opening	Trade Exhibition Area, BCEC	Included for all 4ICSC full time delegates. Tickets available for partners at $A51 per person.	Not applicable
Monday 27 September	1815 to 1915 hrs	Poster Opening Reception ***sponsored by ASA***	Trade Exhibition Area, BCEC	Included for all 4ICSC full time delegates. Tickets available for Monday delegates and partners at $A16 per person.	Not applicable
Tuesday 28 September	1800 hrs onwards	5ACSC Dinner ***sponsored by IRRI***	Offsite: The Australian Woolshed	Tickets available for all delegates and partners at $A45 per person.	Departing from Glenelg Street bus station outside the BCEC
Wednesday 29 September	0800 to 1730 hrs	Mid-Congress Tour 1	Toowoomba/ Eastern Darling Downs	Tickets available for delegates and partners at $A80 per person.	Departing from Glenelg Street bus station outside the BCEC
	0745 to 1730 hrs	Mid-Congress Tour 2	Hermitage/ Southern Darling Downs	Tickets available for delegates and partners at $A80 per person.	Departing from Glenelg Street bus station outside the BCEC
	0900 to 1700 hrs	Mid-Congress Tour 3	Gatton/ Lockyer Valley	Tickets available for delegates and partners at $A80 per person.	Departing from Glenelg Street bus station outside the BCEC
	0815 to 1755 hrs	Mid-Congress Tour 4	Brisbane/ Indooroopilly/ Tweed Valley	Tickets available for delegates and partners at $A80 per person.	Departing from Glenelg Street bus station outside the BCEC
	0730 to 1700 hrs	Mid-Congress Tour 5	Brisbane Sports Stadium/ Redlands/ Rochedale	Tickets available for delegates and partners at $A80 per person.	Departing from Glenelg Street bus station outside the BCEC
Thursday 30 September	1900 hrs onwards	4ICSC Dinner	Plaza Ballroom, BCEC	Tickets available for delegates and partners at $A88 per person.	Not applicable
Saturday 2 October	0900 to 1700 hrs	Sunshine Coast & Australia Zoo Tour	Offsite: Australia Zoo & Sunshine Coast surrounds	Tickets available for delegates and partners at $A75 per adult, $A42 per child.	Departing from the following hotels: Chifley on George, Chifley at Lennons, Hotel Ibis Brisbane, Carlton Crest, Westend Central Apartments Hotel, Hillcrest Apartments, Rydges Southbank

Daily Lunches

Time:	Lunch will be served on Monday (1240-1400 hours), Tuesday, Thursday, and Friday from 1230-1400 hours in the Trade Exhibition & Poster Area in Great Halls 3&4.
Cost:	Delegates: Included in the registration fee for delegates. Partners: Optional at own cost. Tickets may be purchased for $A30 – see the Registration desk.
Instructions:	Please have your perforated lunch ticket ready for collection by Congress staff. Your ticket is inside the white delegate envelope you received upon registration.
Special diets:	Those delegates who have previously advised special dietary requirements will be able to collect their special meal from a separate serving station in the trade exhibition. Please look for the sign "Special Diets".

Sunday 26 September

Welcome Reception & Exhibition Opening

Time:	1800 to 1930 hours
Venue:	Trade Exhibition & Poster Area, Great Halls 3&4, BCEC
Description:	Catch up with friends, make new acquaintances, and view the exciting trade and sponsor displays at the Welcome Reception.
Dress:	Relaxed casual
Cost:	Full-time delegates: Included in the registration fee. Partners: Optional at own cost. Tickets may be purchased for $A51– see the Registration desk.
Inclusions:	Canapés and beverages
Instructions:	Please have your perforated function ticket ready for collection by Congress staff. Your ticket is inside the white delegate envelope you received upon registration.

Monday 27 September

Poster Opening Reception *sponsored by Australian Society of Agronomy*

Time:	1815 to 1915 hours
Venue:	Trade Exhibition & Poster Area, Great Halls 3&4, BCEC
Description:	The reception will include the official opening of the poster displays by Hon Henry Palaszczuk, Minister for Primary Industries and Fisheries, and gives delegates the opportunity to view the posters in a relaxed atmosphere.
Dress:	Smart casual
Cost:	Full-time delegates: Included in the registration fee. Partners: Optional at own cost. Tickets may be purchased for $A16 – see the Registration desk.
Inclusions:	Light food and beverages
Instructions:	Please have your perforated function ticket ready for collection by Congress staff. Your ticket is inside the white delegate envelope you received upon registration.

Tuesday 28 September

5ACSC Dinner *sponsored by IRRI*

Time:	1800 hours (coaches will depart the Convention Centre)
Venue:	Offsite: The Australian Woolshed
Description:	All 4ICSC delegates are invited to the 5ACSC dinner which will be an opportunity to enjoy a unique Australian barbecue and bush cultural experience at The Australian Woolshed on Brisbane's outskirts. Entertainment will feature a sheep shearing demonstration, whip cracking demonstration and competition, and an opportunity to pat and photograph a koala.
Dress:	Smart casual
Cost:	Delegates and partners: $A45 (optional at additional cost)
Inclusions:	Barbecue dinner, return transport, and entertainment – price does not include beverages
Instructions:	Please meet at the bus depot on Glenelg Street which is accessed via the lower foyer of the Convention Centre.

Wednesday 29 September

Mid-Congress Technical Tours

Destinations:	Tour 1: Toowoomba/Eastern Darling Downs Tour 2: Hermitage/Southern Darling Downs Tour 3: Gatton/Lockyer Valley Tour 4: Brisbane/Indooroopilly/Tweed Valley Tour 5: Brisbane Sports Stadium/Redlands/Rochedale
Dress:	Casual clothing and comfortable footwear are recommended, along with sunscreen and a hat for field sites.
Cost:	$A80 per person
Inclusions:	Full day tour including transportation and lunch
Instructions:	• Coaches will depart from the bus depot on Glenelg Street which is accessed via the lower foyer of the Convention Centre. Please see the tour descriptions below for the coach departure time. • Please have your perforated function ticket ready for collection by Congress staff as you prepare to board the coach. Your ticket is inside the white delegate envelope you received upon registration.

Technical Tour 1: Summer and winter cropping systems

Toowoomba/Eastern Darling Downs

Itinerary 0800–0930 Travel from BCEC to Toowoomba 0930–1015 Brief stop at Picnic Point 1030–1215 Inspect farming operations and field sites on the Darling Downs 1215–1315 Lunch – "Prestbury" at Southbrook 1315–1345 Travel to Kingsthorpe 1345–1445 Inspect trial sites at DPI&F's Kingsthorpe research site 1510–1600 Inspect Pioneer commercial plant breeding operation 1600–1730 Return to Brisbane/BCEC	Depart Brisbane at 8 am travelling through extensive Lockyer Valley horticultural areas and stop to take in the view at Picnic Point parklands at the top of the range. Following this the group will visit a graingrowing operation and field research sites to inspect and discuss cropping systems and research and improvement. Lunch is in the grounds of 'Prestbury' at Southbrook, followed by inspections of field trials at the Department of Primary Industries' Kingsthorpe research site, west of Toowoomba. The group will then tour the Pioneer commercial plant breeding complex before returning to Brisbane.

Technical Tour 2: Crop breeding and improvement

Hermitage/Southern Darling Downs

Itinerary 0745–0915 Travel from BCEC to Main Range National Park 0915–1000 Morning tea and brief bushwalk 1015–1100 Travel to Hermitage Station 1100–1230 Outline of crop research programs at Hermitage Research Station 1230–1330 Lunch – Hermitage Station grounds 1330–1430 Research and crop inspections 1430–1500 Travel north through Eastern Darling Downs 1500–1600 Inspect local cereal and pulse crops 1600–1730 Return to Brisbane/BCEC	This tour will travel through the Fassifern Valley farmlands to the Main Range National park for a stopover. Then the group will visit the DPI&F's Hermitage Research Station, the oldest agricultural research station in Queensland, outside of Warwick. Researchers at the station will outline their crop and systems improvement programs. Lunch will be in the Station grounds. The tour will then travel to inspect and discuss local cropping systems 25 km north of the station en-route to Brisbane via the Heifer Creek Highway and the Lockyer Valley.

Technical Tour 3: A pot-pourri of pest management, crop breeding and catchment hydrology

Gatton/Lockyer Valley

Itinerary		
0900–1000	Travel from BCEC to the Gatton campus of the University of Queensland. The CSIRO Cooper Laboratory is on campus.	The Gatton campus of the University of Queensland is in the centre of the Lockyer Valley, a highly productive cropping district some 80 km west of Brisbane. Originally the Queensland Agricultural College, the campus was established in 1897. The CSIRO Cooper Laboratory, established on campus in the 1930s, is a major field site of the organisation's wheat improvement program involving scientists from the molecular biology labs in Canberra through to those in Brisbane researching germplasm enhancement and evaluation. Jim Galletly, formerly a lecturer at the Gatton campus, has made a career-long study of Lockyer Creek, the main water supply for the district and the impact those supplies have had on crop production. Those crops include potatoes, onions, cucurbits, beetroot and other vegetables, citrus and other tree fruits, lucerne as well as wheat, barley and sorghum.
1000–1045	Pesticide application and pest management	
1045–1200	CSIRO Plant Industry integrated wheat improvement program	
1200–1300	Lunch – Gatton Campus grounds	
1300–1600	Hydrology of the Lockyer Valley: "Have the water conservation projects on Lockyer Creek helped or hindered crop production?"	
1600–1700	Return to Brisbane/BCEC	

Technical Tour 4: Sugar cane production

Brisbane/Indooroopilly/Tweed Valley

Itinerary		
0815–0845	Travel from BCEC to BSES at Indooroopilly	**Queensland Sugar Industry/BSES:**
0845–0930	Overview of Queensland sugar industry & BSES	The BSES Limited Centre at Indooroopilly is the corporate headquarters of the organisation. The site accommodates the corporate executive team and organisation-wide support services. There are approximately 50 staff located on site. BSES undertakes a substantial program on genetic modification of sugarcane, which is supported by the CRC for Sugar Industry Innovation through Biotechnology. Outcomes from the GM program will be canes producing bioplastics, derivates of sucrose, and novel approaches to pest and disease resistance. New tissue culture based propagation systems for sugarcane are being developed. Molecular markers associated with performance traits are being used for introgression of novel genes, and for genotyping the identity of clones. Soil and water analyses are undertaken in support of productivity and natural resource management research, and the site provides the majority of the organisation's capability in sugar quality research. Receipt and supply of all germplasm is managed through the quarantine facility on site.
0930–1100	Travel to Melaleuca Station	
1100	Introduction to the NSW sugar industry	
1145	Robert Quirk's farm – management of acid sulfate soils	
1245	Lunch – Tumbulgum	
1355	Condong Sugar Mill – proposed co-generation project	
1435	Mark North's farm – farming systems project & controlled traffic	
1535–1605	Travel to Point Danger	
1605–1625	Brief stop at Point Danger for views of the Gold Coast & Tweed Valley	**NSW Sugar Industry/Tweed Valley:**
1625–1755	Return to Brisbane/BCEC	Over 70% of the sugar cane in the Tweed Valley is grown on acid sulfate soils. We will visit a research site at Robert Quirk's farm and see how the sugar industry manages the problem and how it worked with government to achieve self-regulation for managing these soils. The Cropping Systems trial compares several row configurations using controlled traffic to conventional cane farming methods. The new cropping systems also incorporate a soybean rotation. Under the NSW Sugar Industry's proposed co-generation project, pre-harvest firing of cane will cease and the entire standing crop will be harvested and transported to the mill. There the cane leaves will be separated and used as fuel for generating green power along with the surplus cane fibre. The two proposed plants will each generate 30 MW of green power per year.

Technical Tour 5: Turfgrass production

Brisbane Sports Stadium/Redlands/Rochedale

Itinerary

0730–0800 Travel from BCEC to Suncorp Stadium
0800–0930 Inspect Suncorp Stadium
0930–1000 Travel to Redlands
1000–1430 Inspect research centre Redlands Park; lunch
1430–1500 Travel to Rochedale Turf
1630–1700 Return to BCEC

Suncorp Stadium is the most recent of the major sporting stadiums in Brisbane to be re-developed. Originally known as Lang Park, Suncorp Stadium has a long history as one of Queensland's premier sporting venues. It was re-built in 2003 as a rectangular playing field surrounded by seating for up to 52,500 spectators in stands around the perimeter close to the action in a 'cauldron-like' atmosphere. Suncorp is used for local and international football matches, including Rugby League, Rugby Union and soccer. It was one of the venues around Australia selected to stage last year's World Cup of Rugby. The playing surface is bermudagrass, and is oversown with ryegrass during the cooler months. Like all major sporting venues in Brisbane, Suncorp Stadium is managed by the Major Sports Facility Authority.

Redlands Park – a 66 hectare research centre operated by the Queensland Department of Primary Industries and Fisheries (DPI&F) – is testimony to the changing priorities for agricultural research over the past 50 years. Originally a centre for fruit and vegetable research in the former 'salad bowl' region just outside Brisbane, it is now located among the urban sprawl on the eastern edge of Brisbane and dedicated to amenity (lifestyle) horticulture. A major activity area at Redlands Park is the growing turf research program, which was initiated less than 5 years ago. The adaptation and management of warm-season turfgrasses in relation to environmental and user-related stresses (water, salinity, shade, temperature, nutrition, wear, chemical use) is a major focus of current work at Redlands, and their living collection of more than 130 warm-season turfgrass varieties is always a point of interest for visitors.

Rochedale Turf is one of Queensland's larger-scale sod producers, with 140 hectares under cultivation. The tour will visit Rochedale's main sod farm, which is located on the southern outskirts of Brisbane. The company markets a range of warm-season grasses to a diverse local clientele from homeowners and land developers through to sportsfields, golf courses and other sports venues. It also has contracts for the supply of turf to local and state government agencies, and is moving into export sales. Rochedale Turf's growing business is supported by its expanding range of public and proprietary varieties.

Thursday 30 September

4ICSC Official Congress Dinner

Time:	1900 hours onwards
Venue:	Plaza Ballroom, BCEC
Description:	The Congress dinner will be the highlight of the social program giving delegates one of their final opportunities to meet new friends and farewell colleagues before the last day of the Congress. Entertainment will be provided by the Ran Tan Bush Band.
Dress:	Smart casual
Cost:	$A88
Inclusions:	Food, beverages, and entertainment
Instructions:	Please have your perforated function ticket ready for collection by Congress staff. Your ticket is inside the white delegate envelope you received upon registration.

Saturday 2 October

Sunshine Coast & Australia Zoo Tour

Time:	0900 to 1700 hours (hotel pick ups commence at 0800 hours)
Description:	Discover the best that the Sunshine Coast has to offer. Stop in the heart of the Glasshouse Mountains for a great photo opportunity and travel through the many pineapple plantations and macadamia farms before visiting Australia Zoo. Watch the exciting crocodile feeding show and marvel at the many unique Australian animals on display. Pass the comical Ettamogah Pub en-route to Mooloolaba where you can visit the famous beach and main shopping street. While in the area, why not also visit UnderWater World (optional at own expense) to witness an enormous range of fascinating underwater inhabitants: the brilliantly colourful coral and quicksilver fish of warm tropical waters; moray eels, lungfish and giant barramundi; tumbling turtles and friendly frolicking seals.
Dress:	Casual sun protective clothes, comfortable shoes, hat and sunglasses Take: Sunscreen, light jacket, swimwear and towel
Cost:	Adult: $A75, Child: $A42
Inclusions:	Coach transport and entry to Australia Zoo
Optional:	Entry to UnderWater World: Adult $A20, Child $A10
Instructions:	Coach pick ups will be from select official Congress hotels as follows:

Participants gather	Pick up time/ departure	Pick up from	Pick up location	Nearby Congress hotels
0750	0800	**Chifley on George** 103 George Street, Brisbane	Opposite the hotel, across the street at the George Street Council Bus Stop	The pick up location is within walking distance from: *Conrad International*
0800	0810	**Chifley at Lennons** 66–76 Queen Street Mall, Brisbane	Underneath the hotel, in the bus tunnel	Not applicable
0810	0820	**Hotel Ibis Brisbane** 27–35 Turbot Street, Brisbane	Front of hotel	The pick up location is within walking distance from: *Mercure (via internal walkway)* *Hotel George Williams* *Quest on North Quay*
0820	0830	**Carlton Crest** King George Square, Corner of Roma & Ann Streets, Brisbane	Front of hotel	The pick up location is within walking distance from: *Explorers Inn*
0825	0835	**Westend Central Apartments Hotel** 220 Melbourne Street, West End	Front of hotel	Not applicable
0830	0840	**Hillcrest Apartments** 311 Vulture Street, South Brisbane	Front of hotel	Not applicable
0835	0845	**Rydges Southbank** Glenelg Street, South Brisbane	Front of hotel	Not applicable

Participants who have not booked accommodation with the Congress should call 1300 300 242 at least 24 hours (open 6am to 9pm daily) before the tour to confirm from which of the above locations they will join the tour. Remember to bring your ticket!

Partners' Tours

Tours – Overview

Date	Time	Activity	Location	Cost	Transfers
Monday 27 September	0830 to 1830 hrs	Noosa Discovery Tour	Noosa & surrounds	Adult: $A131 Child: $A66	Departing from Glenelg Street bus station outside BCEC
Tuesday 28 September	0900 to 1700 hrs	Gold Coast & Hinterland Winery Tour	Gold Coast & surrounds	Adult: $A71 Child: $A45	Departing from Glenelg Street bus station outside BCEC
Thursday 30 September	0930 to 1300 hrs	Highlights of Brisbane Morning Tour	Brisbane city	Adult: $A46 Child: $A30	Departing from Glenelg Street bus station outside BCEC
	1430 to 1800 hrs	Lone Pine Koala Sanctuary Afternoon Tour	Lone Pine Koala Sanctuary	Adult: $43 Child: $33	Departing from Glenelg Street bus station outside BCEC
Friday 1 October	0730 to 1730 hrs	4WD Window to Wilderness Tour	Tamborine Mountain & Lamington National Park	Adult:$A126 Child: $A71	Departing from Glenelg Street bus station outside BCEC

Monday 27 September

Noosa Discovery Tour

Time:	0830 to 1830 hours
Description:	Discover the beauty of Queensland's Sunshine Coast and its surrounds. Depart Brisbane for a scenic drive to Noosa, stopping at Fairhill Native Plants & Botanic Gardens for a Devonshire tea and Anzac biscuits (a real Australian favourite!). Enjoy a scenic drive through the Noosa Hinterland before reaching Noosa's famous Hastings Street. Enjoy a leisurely lunch at Bistro C, one of Noosa's fabulous beachfront restaurants. Following lunch, enjoy an afternoon at leisure: browse through the designer boutiques, take a stroll through Noosa National Park (and perhaps spot a koala in its natural environment!), or simply relax on the beach before returning to Brisbane.
Dress:	Casual sun protective clothes, comfortable shoes, hat and sunglasses Take: Sunscreen, swimwear, towel, light jacket
Cost:	Adult: $A131, Child: $A66 *Please note that at time of writing there were no further tickets available for sale on this tour; however please check at the registration desk in case another participant has cancelled.*
Inclusions:	Return coach transport, morning tea at Fairhill and lunch at Bistro C
Instructions:	Participants are to gather at the Glenelg Street bus station outside the BCEC at 0820 hours. Remember to bring your ticket!

Tuesday 28 September

Gold Coast & Hinterland Winery Tour

Time:	0900 to 1700 hours
Description:	Escape to South East Queensland's thriving wine region to sample local wines from award winning wineries and cellar doors. Breathtaking scenery awaits you as your tour weaves its way around Mt Tamborine and the spectacular Gold Coast Hinterland. While in the area, why not take a walk through a rainforest at Curtis Falls or visit one of the numerous art and craft shops of Mt Tamborine's Gallery Walk.
Dress:	Casual sun protective clothes, comfortable shoes, hat and sunglasses Take: Sunscreen, light jacket
Cost:	Adult: $A71, Child: $A45
Inclusions:	Return coach transport, wine tasting at Cedar Creek Vineyard, Tamborine Estate, Albert River and BBQ lunch at Pioneer Homestead
Instructions:	Participants are to gather at the Glenelg Street bus station outside the BCEC at 0850 hours. Remember to bring your ticket!

Thursday 30 September

Highlights of Brisbane Morning Tour

Time:	0930 to 1300 hours
Description:	Discover Brisbane's convict and colonial past and see its most historic and oldest buildings. See St Johns Cathedral and stop at the Kangaroo Point cliffs for a spectacular photo of our river city. See Brisbane from Bartley's lookout and enjoy morning tea at the Breakfast Creek Hotel. Finish the morning with a river cruise on the City Cat to lush South Bank Parklands. Here you have the option to stay on and explore before making your own way back, or returning to your accommodation.
Dress:	Casual sun protective clothes, comfortable shoes, hat and sunglasses. Take: Sunscreen, light jacket
Cost:	Adult: $A46, Child: $A30
Inclusions:	Return coach transport and morning tea at the Breakfast Creek Hotel
Instructions:	Participants are to gather at the Glenelg Street bus station outside the BCEC at 0920 hours. Remember to bring your ticket!

Lone Pine Koala Sanctuary Afternoon Tour

Time:	1430 to 1800 hours
Description:	Drive past some of the city's finest historical buildings, and through the prestigious suburban areas, en-route to the world famous Lone Pine Koala Sanctuary. With over 130 koalas, you will have the opportunity to cuddle a koala (optional at own expense) and feed the friendly kangaroos in a natural bush setting. The tour will also visit Mt Coot-tha lookout (Brisbane's highest point) with its breathtaking views of the city and surrounding areas, and pass the sidewalk cafes of "A Little Paris" on your return.
Dress:	Casual sun protective clothes, comfortable shoes, hat and sunglasses. Take: Sunscreen, light jacket
Cost:	Adult: $A43, Child: $A33 Optional: Have your photo taken holding a koala for $A16 per person
Inclusions:	Return coach transport and entry to Lone Pine
Instructions:	Participants are to gather at the Glenelg Street bus station outside the BCEC at 1420 hours. Remember to bring your ticket!

Friday 1 October

4WD Window to Wilderness Tour

Time:	0730 to 1730 hours
Description:	This tour takes you on a journey to the World Heritage listed rainforests of Lamington National Park and Tamborine Mountain. Sweeping views, cascading waterfalls, and some awesome four wheel driving make this an exciting and unforgettable day. Take time out to explore O'Reilly's rainforest canopy boardwalk with brilliantly coloured birds, spectacular waterfalls and cool mountain streams. Lunchtime entertainment includes a whip cracking demonstration and boomerang throwing. Didgeridoos will be available for participants to play!
Dress:	Casual sun protective clothing, comfortable shoes, hat and sunglasses. Take: Sunscreen, drinking water, light jacket, swimwear, towel
Cost:	Adult: $A126, Child: $A71
Inclusions:	Return transport via 4WD, morning tea, and bush lunch
Instructions:	Participants are to gather at the Glenelg Street bus station outside the BCEC at 0720 hours. Remember to bring your ticket!

Social Technical & Partners' Tours Terms/Conditions

Tickets

- Tickets are required for entry to daily lunches, social functions/ activities and all technical and partners' tours. Tickets for delegate activities/tours and partners' activities/tours are located in your delegate envelope you received upon registration.
- Please note – we cannot guarantee to be able to sell extra tickets onsite; tickets will likely not be available less than 48 hours prior to a function.

Booking Policy

- All activities/tours are subject to availability.
- Optional activity costs (offered as part of tours) are approximate only and subject to change

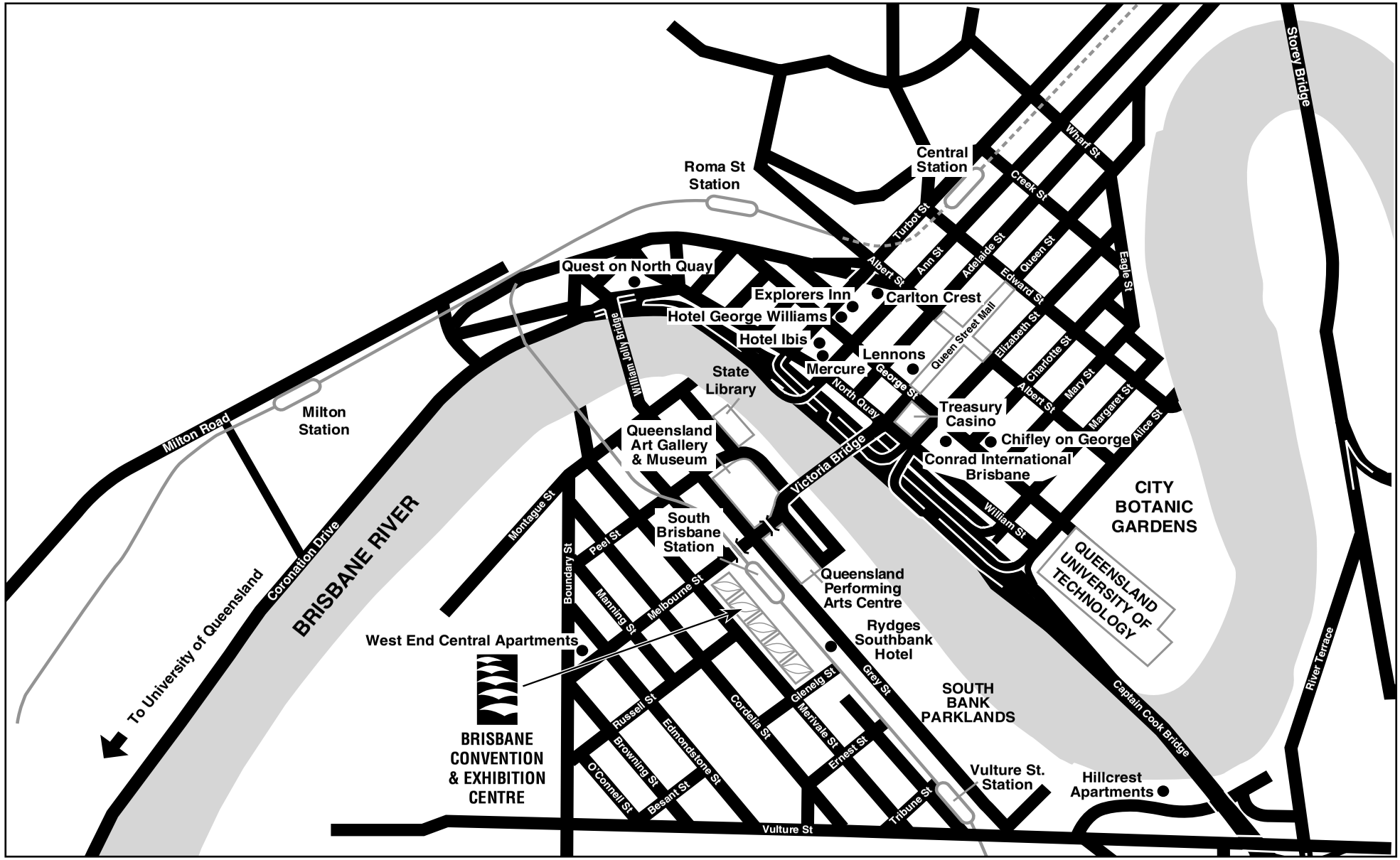
Cancellation Policy

- As advised in the registration brochure, paid social or tour tickets will not be refunded if participation is cancelled after 23 September 2004.
- The Congress reserves the right to cancel optional activities if minimum numbers are not reached.

Disclaimer

The Congress host body, organising committee and Event Planners Australia (formerly Intermedia Convention & Event Management Pty Ltd) and their agents act only as organisers of these activities and do not accept responsibility for any act or omission on the part of the service providers. No liability is accepted for inaccuracy, misdescription, delay, damage, death or personal injury.

Brisbane Map



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Brisbane Discount Dining Guide

On free nights during the Congress, especially Wednesday 29 September, delegates are invited to make their own dining selection from a multitude of outstanding local restaurants. A list of recommended venues follows. Mention you are a 4ICSC delegate when you make your booking and present your namebadge to receive the special offers mentioned below. Special offers are valid from Sunday 26 September to Sunday 3 October 2004.

Restaurant	Description	Discount / Incentive
Bella Notte Italian Restaurant & Bar Shop 11, 30 Park Road, Milton T: 3369 5326	Contemporary European on the famous Park Road strip.	10% discount on meals from main menu.
Café San Marco Riverside Promenade, South Bank Parklands T: 3846 4334	Sleek café dining with fabulous views of the river and the city.	10% discount on total bill.
CBD Café Bar Lobby Level, Cnr Grey & Glenelg Streets, South Bank T: 3364 0877	Modern Australian cuisine. Offers large wood fired oven, ready for gourmet pizzas – try the king prawn pizza. Diverse menu includes tapas, steaks and pasta.	10% discount on total bill.
Circa Restaurant 483 Adelaide Street T: 3832 4722	Excellent food, a wine-list as long as your arm and views of the Story Bridge and river make Circa an inner city hot-spot.	Complimentary dessert when ordering entrée and main course per person. Not to be used in conjunction with any other offer.
Daniel's Restaurant & Bar 145 Eagle Street T: 3832 3444	Daniel's has a comprehensive menu which offers modern freestyle cuisine and export quality beef.	10% discount on total bill.
Decks Steak & Seafood Energex Arbour, South Bank Parklands T: 3846 4036	Seafood platters to sigh for! Great steaks! Crabs and lobsters in season; oysters, prawns, fresh fish and marvellous fish and chips. 2003 Barramundi Gold Plate Award	15% discount on meals only. Only one offer applies. Not to be used with any other offer.
Il Centro Restaurant & Bar Shop 6, Eagle Street Pier, Eagle Street T: 3221 6090	Multi-award-winning restaurant with views of the Brisbane River & Story Bridge. Fine balance of casual but elegant al fresco and indoor dining with a modern Italian flavour.	Complimentary glass of Galway Pipe Port or Brown Brothers Muscat & Flora when ordering entrée and main course per person.
La Dolce Vita Ristorante Shop 12, 20 Park Road, Milton T: 3368 1191	Alfresco Italian dining.	10% discount on total bill.
Pig 'N' Whistle Eagle Street Shop 20, Riverside Centre, 123 Eagle Street T: 3832 9099	Inspired by the tradition of old style English pubs, the Pig 'N' Whistle is an ideal destination to eat, drink, relax, and socialise.	$A30 per person set menu: Vietnamese spring rolls; fresh market fish of the day or rosemary chicken; glass of house wine or pint of local beer.
Punjabi Palace 195 Melbourne Street, West End T: 3846 3884	Traditional Indian cuisine.	5% discount on meals only. Offer excludes Monday (closed), Friday & Saturday. Offer excludes anything on special.
River Canteen On the Boardwalk (near the Goodwill Bridge), South Bank T: 3846 1880	Relaxed fine dining with absolute river frontage views of CBD and Kangaroo Point cliffs. Modern Australian cuisine with International flavours.	Complimentary glass of the Hamilton Ewell Chardonnay (2003) when you order the Fish of the Day, or complimentary glass of the Hamilton Ewell Cabernet Shiraz (2002) when you order the Beef.
The Plough Inn Tavern Stanley Street Plaza, South Bank Parklands T: 3844 7777	Dine in the beer garden on magnificent steaks, hickory smoked pork ribs, crisp salads, burritos, pasta, seafood and chips!	Free bottle of wine with two main meals ordered.
The Royal Thai Orchid 45 Little Cribb Street, Milton T: 3229 2588	Multi-award-winning Thai restaurant.	10% discount on total bill.
Toscani's Little Stanley Street, South Bank T: 3846 1000	Modern Italian cuisine. Tuscan decor reflects the modern Italian menu.	10% discount on total bill.

If you do not wish to make a booking at one of the restaurants listed, we encourage you to visit one of Brisbane's many café strips, as follows:

- For something a little more bohemian, **New Farm** has several small and intimate brasseries, as well as a good selection of cafes. From Fortitude Valley, head down Brunswick Street to the corner of Barker Street.
- Meander along the river and then enjoy the city views at one of **South Bank Parkland's** many and varied restaurants. South Bank offers almost 30 cafés, restaurants and takeaways, from ethnic fare to contemporary.
- Mediterranean, Middle Eastern and Asian communities live side by side in Brisbane's most multicultural suburb, West End. Right next door to South Bank, **West End** has dozens of established Asian, European and other restaurants particularly along Melbourne Street, Boundary Street, Vulture Street and Hardgrave Road.
- Visit vibrant **Rosalie** for a great selection of cafes and restaurants centred around Baroona Road and Nash Streets.
- **Park Road, Milton,** is a unique dining experience in Brisbane. Packed with great al-fresco restaurants, boutiques, and gift stores.
- **Queen Street Mall** is a veritable buffet of food choice, with alfresco and sunlit restaurants dotted along the Mall. Several are open all day and night.
- At **Eagle Street Pier** the river views are fabulous and there is a myriad of highly awarded up-market restaurants to choose from including Cha Cha Char; Il Centro; Opus; Pier Nine; and Vinos.
- **Fortitude Valley – in Brunswick Street** sidewalks double as extended restaurant space. From linen-clothed class to casual and ethnic. **Central Brunswick** is a dining hot-spot. Find sophisticated pan-Asian, tapas, and one of our city's oldest restaurants, Lucky's Trattoria. There's also Spanish, Japanese, Thai and excellent Gelati. In **Chinatown** taste the diversity of Asia – Chinese, Thai, Cambodian, Vietnamese, Malaysian and Laotian. Experience Yum Cha, where you choose dim sum, seafood nibbles, even chicken's feet, from constantly passing trolleys. Served from 11am to 2pm, with Sunday the busiest day.
- **Brisbane pubs** – find contemporary Aussie pub fare at Cavill's Norman Hotel, Woolloongabba, and the historic Breakfast Creek Hotel at Albion.
- **River views** – if you like to eat while soaking in the river views, there are lots to choose from, including Bretts Wharf at Hamilton; Watt at the Powerhouse Centre for Live Arts at New Farm; or even ON the river aboard the Kookaburra Queen paddlewheeler, departing from Eagle Street Pier.

Cafés near to Convention Centre

If you want to catch up with friends and colleagues for a chat away from the Convention Centre, following is a list of cafés within walking distance. In addition, Merivales Restaurant & Café at the Convention Centre will be open from 0900 to 1700 hours, Monday to Friday during the Congress.

- Café Imax
  167 Grey Street, South Brisbane – T: 3226 4625
- Cafe Lagoona's
  Stanley Street Plaza, South Bank – T: 3844 8092
- Café Society
  Shop 30BB, Stanley Street Plaza, South Bank – T: 3217 2700
- Chez Laila
  Boardwalk Restaurants, South Bank Parklands – T: 3846 3402
- Denim Co
  Little Stanley Street, South Bank – T: 3844 0302
- Espresso Garage
  Shop 8A, 176 Grey Street, South Bank – T: 3846 6162
- Flavours on Stanley
  Shop 10, 176–178 Grey Street, South Bank – T: 3844 1997
- Le Circ
  Cnr Grey, Ernest & Little Stanley Streets, South Bank – T: 3846 7331
- Star on Little Stanley Cafe & Bar
  Little Stanley Street, South Bank – T: 3844 8448
- Steam
  Central Cafes, South Bank – T: 3846 0602
- T'Licious
  Shop 9, Little Stanley Street, South Bank – T: 3844 3305
- Water Mall Cafe at the Queensland Art Gallery
  Cnr Grey & Melbourne Streets, South Bank – T: 3840 7145

Things to See & Do in Brisbane

The following sights and attractions are a short walk or taxi ride from most city hotels. Ask the hotel concierge for details.

- Chinatown
- City Botanic Gardens
- City Hall (King George Square)
- Conrad Treasury Casino
- Lone Pine Koala Sanctuary
- Parliament House
- Queensland Art Gallery
- Queensland Museum
- Riverside Markets (Sunday only)
- South Bank Markets (Friday nights and weekends only)
- South Bank Parklands

Golf

St Lucia Golf Links

St Lucia Golf Links is an 18 hole 'pay and play' course open seven days a week. It is located next to the Brisbane River, 10 minutes from the city, at the corner of Indooroopilly Road and Carawa Street, St Lucia.

Facilities and services:

- 18 hole weekday and weekend golf
- nine hole dusk and dawn golf rates
- 'the nineteenth' refreshment bar
- Golf World pro-shop, including an indoor practice net
- 30 motorised buggies
- car parking facilities
- The Clubhouse with fully licensed restaurant
- change rooms and toilets

Costs:
18 holes – $A25 per person;
9 holes – $A17 per person
Club hire – $A12.50 half set/$A35 full set
No shoe hire available
Pull Buggy Hire – 18 holes – $A3.50;
Motorised Buggy Hire – 18 holes – $A29.50;9 holes – $A16.50
These prices are for week days only – please call to confirm weekend prices.
It is preferable for you to make a booking and a discount will apply if 12 or more people are playing.

Bookings:
Contact the Clubhouse on 3870 3433 or the Golf World Pro-Shop on 3870 7084.

Victoria Park Golf Course

Victoria Park Golf Course is a nine hole course located at Herston Road, Herston, two kilometres from the city centre.

Facilities and services:

- nine hole weekday and weekend golf
- public course
- nine hole dusk or dawn rates
- car parking
- 18 motorised buggies
- tees and greens to PGA construction standards
- pro shop
- 76 bay driving range
- cafe/restaurant

Costs:
18 holes – $A20 per person;
9 holes – $A13.50 per person
Club hire – 9 holes – $A6.60 half set/ $A11 full set;
18 holes – $A11 half set/$A20 full set
Pull Buggy – 9 holes – $A2.75;
18 holes – $A4.40
Motorised Buggy – 9 holes – $A15.50;
18 holes – $A27.50
Driving Range – 45 balls – $A7;
105 balls – $A13

Bookings:
Contact the Pro Shop on 3252 9891.

Congress Information

Congress Managers

Event Planners Australia
(formerly Intermedia Convention & Event Management)
PO Box 1280, Milton QLD 4064 AUSTRALIA
Telephone: +61 (0)7 3858 5410
Facsimile: +61 (0)7 3858 5510
Internet: www.eventplanners.com.au

Congress Registration Office

The Congress registration office will be staffed at the following times:

Sunday 26 September 2004	1500–1900 hours
Monday 27 September 2004	0800–1830 hours
Tuesday 28 September 2004	0800–1630 hours
Wednesday 29 September 2004	Closed
Thursday 30 September 2004	0800–1700 hours
Friday 1 October 2004	0800–1700 hours

Congress Venue

Brisbane Convention and Exhibition Centre
Cnr Merivale and Glenelg Streets
South Brisbane QLD 4101 AUSTRALIA
Telephone: +61 (0)7 3308 3000
Facsimile: +61 (0)7 3308 3500

Dress Code

Welcome Reception	Relaxed casual
Poster Opening	Smart casual
5ACSC dinner	Smart casual
Mid Congress Technical Tours	Comfortable casual clothing, flat shoes, and a hat (sunscreen also recommended)
4ICSC dinner	Smart casual
Sessions	Smart casual (carrying a jacket is recommended as air-conditioned rooms can be cool)

Function/Lunch/Tour Tickets

Attendance at lunches, social functions, optional activities and tours is by ticket only. These tickets are in your registration envelope. If tickets are misplaced or you do not have tickets for the functions or tours you wish to attend, please advise registration staff at the Congress office.

Internet Services

Internet Lounge in Trade Exhibition **sponsored by the Molecular Plant Breeding CRC**

There is a complimentary internet lounge located in the trade exhibition, Halls C&D, for the duration of the Congress which has kindly been sponsored by the Molecular Plant Breeding CRC. For the benefit of all users, delegates are requested to keep their usage of the internet stations to a maximum of 15 minutes per visit, and not to download large files. The internet lounge will be available during opening hours of the trade exhibition – see the Trade Exhibition section of this handbook for details.

Internet access outside Trade Exhibition opening hours:

For internet use outside trade exhibition opening hours the Convention Centre provides user-pays internet access in the foyer near Merivales Restaurant. To use a PC, you must purchase a password from the Information Desk in the Convention Centre foyer at a cost of $A10 for 15 minutes. On receiving the password, you will be able to log on to a PC and use the Internet for around 15 minutes. Internet Explorer, Microsoft Office Suite and Printing Facilities are installed on the PCs. Please note there is no facility at the Convention Centre for you to connect and use your own PC for internet use.

Media

Media Invitation

Journalists and photographers wishing to cover the 4th International Crop Science Congress and associated events are welcomed as invited guests. In order to enter any of the sessions for the event, you will need to wear the media namebadge provided to you when you checked in at the Congress registration desk in the foyer.

Media Room and Information for the Media

Media kits, including programs, bios of speakers and press releases, are available from the media room in Mezzanine Room 7 at the Convention Centre. The media room is also available for media use and for interviews. Updated information for the media will be available from the media room throughout the event. For media enquiries and to organise interviews, please contact Cathy Reade on 0413 575 934.

Media Events

A range of side events such as press conferences and briefings have been organised for media during the Congress. Details of these are available at the media room.

Messages

A message board will be located outside the Congress registration office. Please advise potential callers to contact Brisbane Convention & Exhibition Centre on telephone +61 (0)7 3308 3000 and ask for the Crop Science Congress office. No guarantee can be given to deliver messages personally.

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.

Speakers' Support Centre

The speakers' support centre is located in Meeting Rooms 5&6 on the Mezzanine Level, Brisbane Convention & Exhibition Centre. The centre is open at the following times:

Sunday 26 September 2004	1500-1900 hours
Monday 27 September 2004	0800-1800 hours
Tuesday 28 September 2004	0800-1630 hours
Wednesday 29 September 2004	Closed
Thursday 30 September 2004	0800-1700 hours
Friday 1 October 2004	0800-1700 hours

Special Dietary Requirements

Delegates who have advised special dietary requirements via the registration form should identify themselves to the serving staff at functions. Lunches will be available from a separate serving station in the trade exhibition. If you have not yet advised us of your special requirements, please see the registration office staff as soon as possible. The organisers cannot guarantee special meals for delegates who have not pre-booked these at least 72 hours prior to a meal.

General Information

Accommodation

Hotels	*Telephone*	*Fax*
Carlton Crest Hotel	3229 9111	3229 9618
Chifley at Lennons	3222 3222	3221 9389
Chifley on George	3221 6044	3221 7474
Conrad International	3306 8888	3306 8880
Explorers Inn	3211 3488	3211 3499
Hotel George Williams (YMCA)	3308 0700	3308 0733
Hotel Ibis	3237 2333	3237 2444
Hotel Mercure	3236 3300	3236 1035
Rydges Southbank	3255 0822	3255 0899
Apartments	*Telephone*	*Fax*
Hillcrest Apartments	3846 3000	3846 3578
Quest on North Quay	3236 1440	3236 1582
Westend Central Apartments	3011 8333	3011 8399

Banking

The following banking facilities are located in the South Bank precinct.

Bank of Queensland
88 Boundary Street
West End
T: 3844 8750

Commonwealth Banking Corporation
Corner Mollison & Boundary Streets
South Brisbane
T: 3844 4505

National Australia Bank
Boundary Street
South Brisbane
T: 3844 1323

Westpac Banking Corporation
91 Boundary Street
West End
T: 3844 4861

The BCEC provides an Automatic Teller Machine located on the concourse between the Great Hall and Exhibition Hall 1. This machine accepts all cards with the exception of Bank of Queensland.

Business Centre

The Convention Centre operates a user-pays business centre at the information desk in the main foyer during normal business hours – 0900 hours to 1700 hours daily.

Childcare

Dial an Angel – for one or two children the rate is $A61 for the first three hours then $A13 for each additional hour. All sitters have a childcare suitability card and first aid certificate. 3 to 4 hours notice is required for night time childcare, and 24 hours notice is required for daytime care. For more information, telephone: 3878 1077.

Emergency First Aid & Medical

For emergency first aid & medical assistance, telephone:
Ambulance: 000
Dental: 3830 4157

The nearest Public Hospital Casualty Department is at the Mater Hospital, Annerley Road, South Brisbane, telephone: 3840 8111.

Also, for your information the BCEC Security Team are trained in CPR / Oxygen & Defibrillator use and First Aid.

Shopping hours in Brisbane

Shops in the central business district are open from 0900 hours to 1730 hours on weekdays and until 2100 hours on Friday nights. Most of the shops are open from 1000 to 1700 hours on Saturday and 1000 to 1600 hours on Sunday.

Smoking

Smoking is not permitted anywhere within the BCEC.

Telephone Codes

Australia country code: 61; Queensland area code: 07.

Tourist Refund Scheme

The TRS enables you to claim a refund, subject to certain conditions, of the goods and services tax (GST) and wine equalisation tax (WET) that you pay on goods you buy in Australia. To claim a refund you must:

- Spend $A300 or more in the one store and get a single tax invoice;
- Buy goods no more than 30 days before departure; and
- **Wear or carry the goods on board and present them along with your tax invoice,** passport and boarding pass to a TRS facility (located at airports throughout Australia).

How you make a claim

You will need to present the following at the Customs TRS facility when you depart Australia:

- your goods (to prove you are taking them out of the country);
- the original tax invoice from the retailer (to provide information for Customs officers);
- your passport; and
- your international boarding pass or other proof of travel.

You should note that it is a legal requirement that the person who purchases the goods must be the person who makes the claim for a refund of GST.

Claims can only be made up to 30 minutes prior to the scheduled departure of your flight.

Where you make a claim

Claims can be made **after** you have passed through Customs and Immigration outward processing at the TRS facilities at international airports at Sydney, Brisbane, Melbourne, Perth, Cairns, Adelaide, Darwin and Gold Coast.

General Information

Transport to the BCEC

The Convention Centre is within walking distance of most CBD Hotels. Alternatively the following transport facilities are available. Please note that you may purchase a Translink ticket which covers travel on trains, buses, and ferries:

Train

For timetables and fare enquiries, telephone: 13 12 30.
The BCEC is located adjacent to South Brisbane train station – the train station can be accessed via the Plaza level exit of the BCEC and taking the ramp down to street level.

Bus

For timetables and information, telephone: 13 12 30.
The BCEC is located near the bus stop outside the Cultural Centre. Leaving BCEC main foyer, turn right into Merivale Street and then right into Melbourne Street.

CityCat

For timetable and information, telephone 13 12 30.
The nearest CityCat terminals are located on the boardwalk at South Bank Parklands.

Parking

Parking is available at the BCEC for $A9 Flat Rate for 24hr parking. Early Bird Rate $A7 – in before 9am, out before 6pm.

Transport to the Airport

Train

The Airtrain rail service provides a 20 minute service from the city (including Central and Roma Street Stations) to the domestic and international airports for $A10. For timetables and information, telephone: 13 12 30.

Bus

Coachtrans operates a domestic and international airport shuttle bus service every half hour between most inner city hotels and Brisbane airport for $A11 per person one way. For timetables and information, telephone: 3238 4700.

Taxi

Transfers by taxi from inner city hotel locations to Brisbane airport will take 25–30 minutes and cost approximately $A30. For bookings and information, telephone:

Black & White Cabs	131 008
Yellow Cabs	131 924
Yellow Cabs Executive	132 227

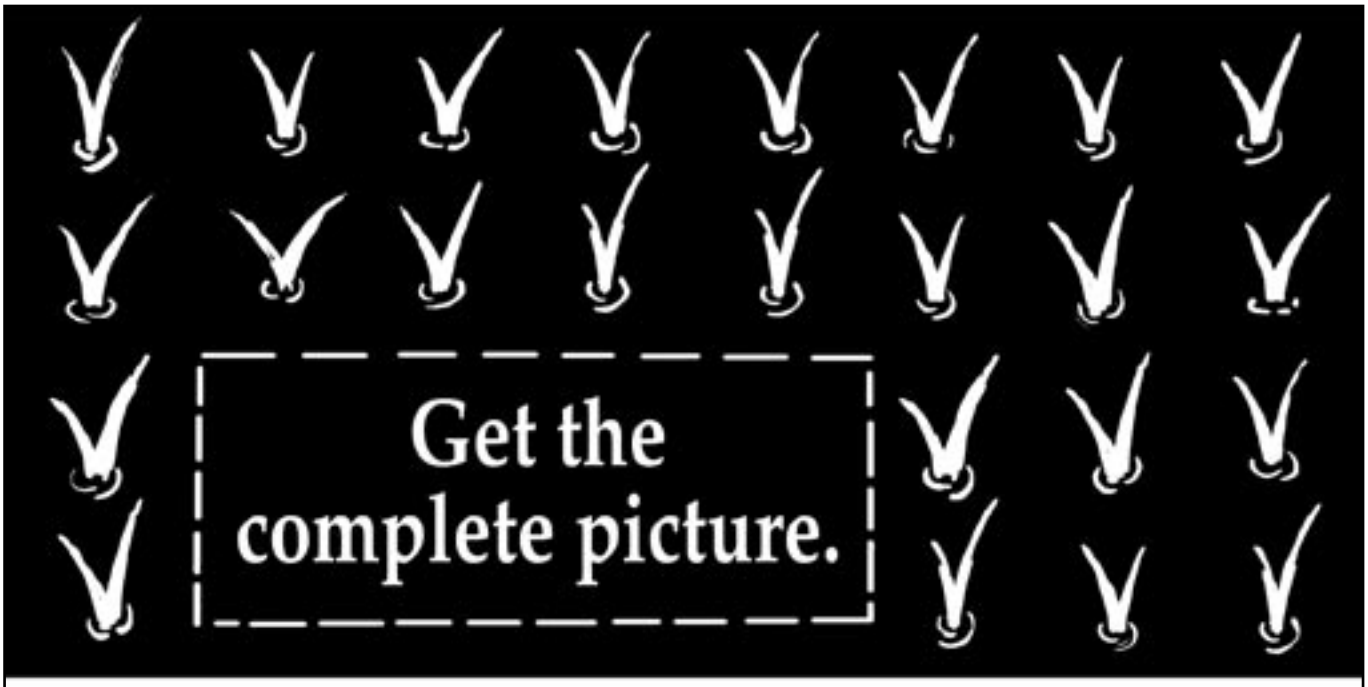
Corporate Travel Management

If you booked your flights through Corporate Travel Management (CTM) you can change your bookings by contacting them as follows:

T: 1800 630 866
T (after hrs): 0402 890 533
F: 3229 7522
E: groups@travelctm.com
Please quote tour code: CROPS 2004

Malaysia Airlines

The committee would like to thank Malaysia Airlines for their support of the Congress as official international airline.



Discover how the International Rice Research Institute (IRRI) develops technologies to help feed the world, and get a better view of rice science.

To know more about IRRI, its research agenda, and its impact on rice-producing and rice-consuming nations, visit www.irri.org.

rice is life
INTERNATIONAL YEAR OF RICE 2004

Contact Information Services, International Rice Research Institute (IRRI)
at irri@cgiar.org with subject line: DDGR-ICSC-Aus.
IRRI Mailing Address: DAPO Box 7777, Metro Manila, Philippines

Rice Science for a Better World
IRRI

Brisbane to Asia, 5 times a week.

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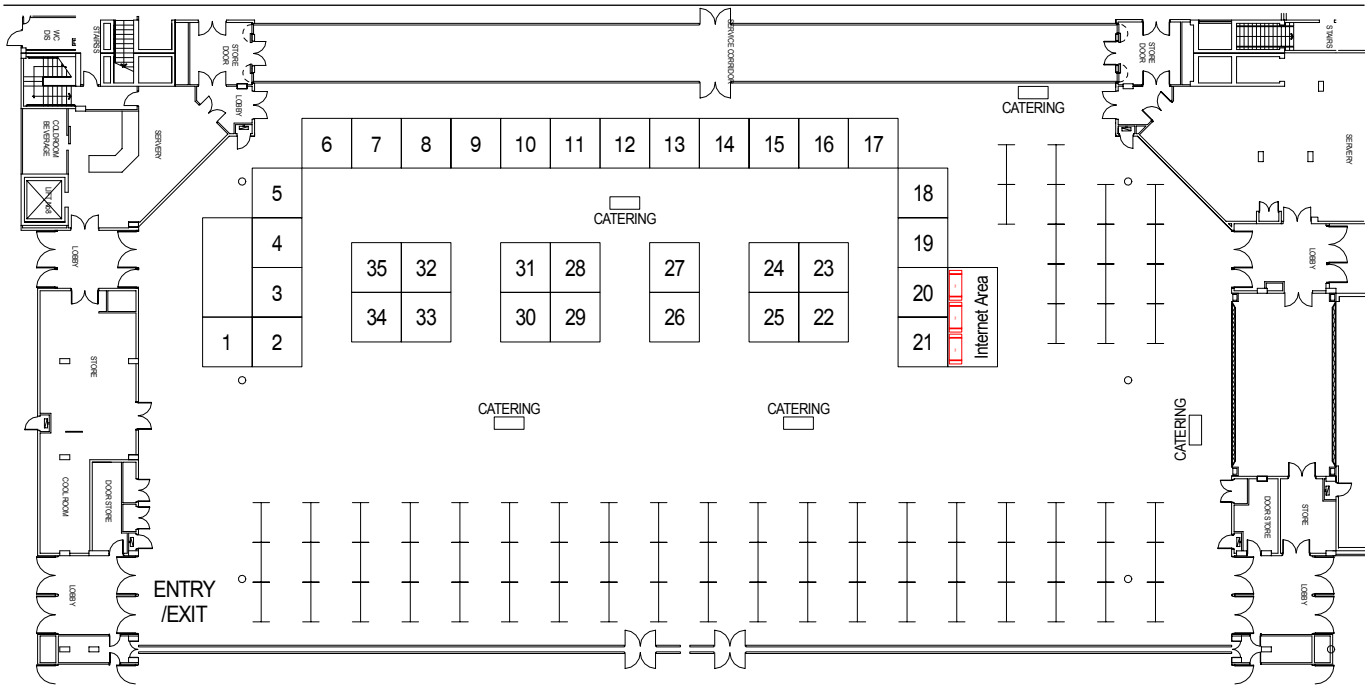
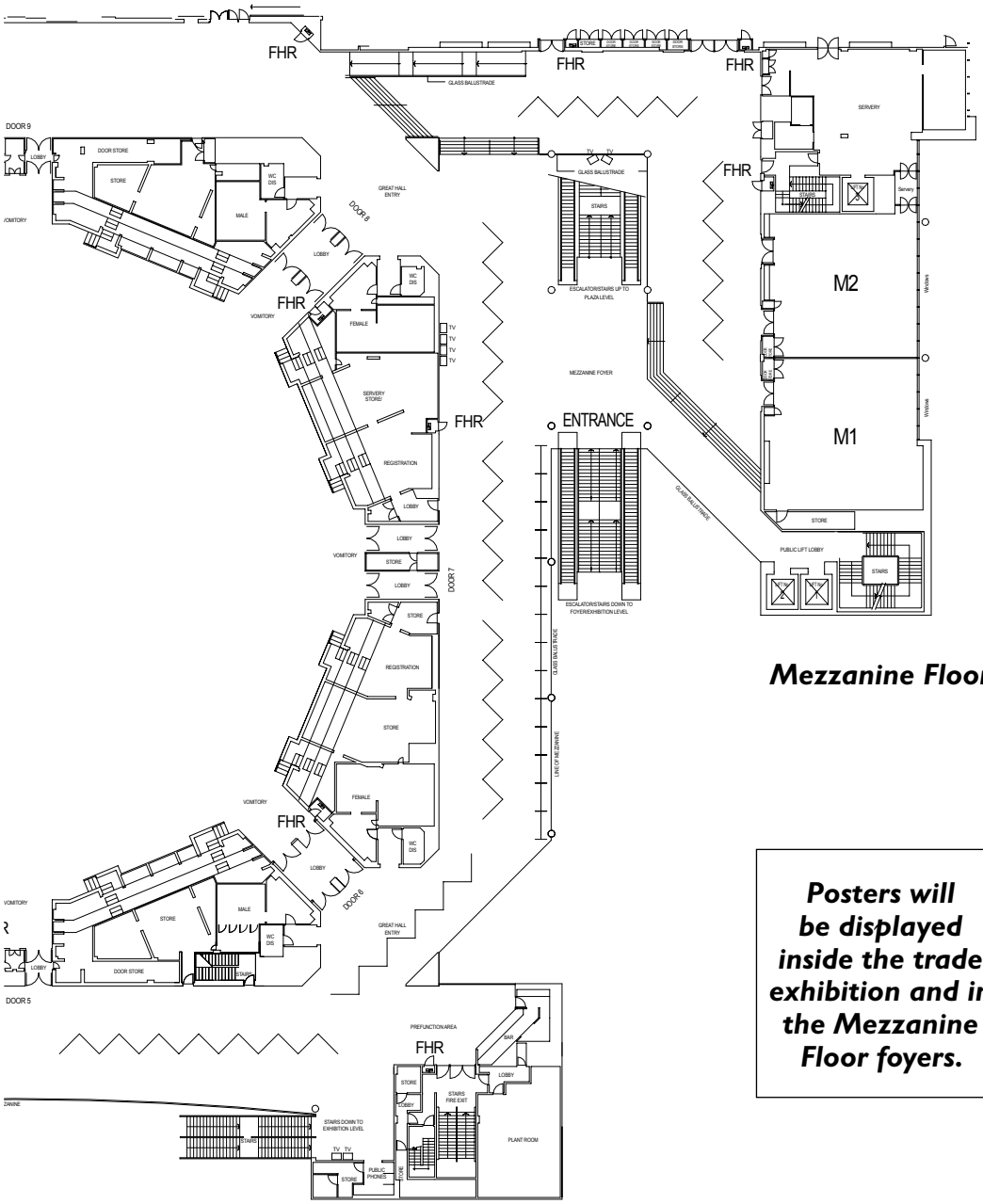
4ICSC

NEW DIRECTIONS FOR A DIVERSE PLANET

Trade Exhibition

Trade Exhibition Floor Plan





Mezzanine Floor

Posters will be displayed inside the trade exhibition and in the Mezzanine Floor foyers.

Trade Exhibition

Location

The trade exhibition is located in Great Halls 3&4.

Opening Hours

Sunday 26 September	1800–1930 hours (Welcome Reception & Exhibition Opening)
Monday 27 September	0830–1915 hours (including evening Poster Opening Reception)
Tuesday 28 September	0800–1630 hours
Wednesday 29 September	Closed for Mid-Congress Technical Tours Day
Thursday 30 September	0800–1700 hours
Friday 1 October	0800–1400 hours

Exhibitor List

Name	Booth number
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ADC ANRI Instruments Skye	13
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CSSA	4
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Exhibitors' Details

ACIAR (Australian Centre for International Agricultural Research) **Booth 27**

Diamond Sponsor

Warren Page
Science Communicator
GPO Box 1571
Canberra ACT 2601
AUSTRALIA
Telephone: +61 2 6217 0500
Fax: +61 2 6217 0501
Email: comms@aciar.gov.au
Website: www.aciar.gov.au

The Australian Centre for International Agricultural Research utilises Australia's exceptional scientific skills to contribute to Australia's international development cooperation program through agricultural research partnerships to benefit developing countries. ACIAR collaborates with partner countries in setting priorities and commissioning research to achieve more productive and sustainable agricultural systems that help reduce poverty in the Asia-Pacific region. Crop related research focuses on genetic improvement of crop plants, where appropriate improved crop management, as well as crop protection with an emphasis on bio-security.

ADC ANRI Instruments Skye **Booth 13**

Stephen Hurst
Sales Manager
Anri Instruments & Controls Pty Ltd
29, 756–758 Burwood Hwy
Ferntree Gully VIC 3156
AUSTRALIA
Telephone: +61 3 9752 3782
Fax: + 61 3 9752 3783
Email: anriinst@dragon.net.au
Website: www.adc.co.uk / www.skyeinstruments.com

Anri Instruments will be displaying the latest in ADC BioScientific Plant Science Instrumentation & Skye Instruments Environmental monitoring sensors and research instruments. Among the instruments on display will be the new ADC ultra compact fully programmable LCpro+ portable photosynthesis system & the new Skye DataHog 3 logging system as well as Chlorophyll Fluorescence monitors, leaf area monitors, light sensors, Met sensors and soil and plant moisture monitors. Representatives from Anri, ADC (UK) & Skye (UK) will be on hand to discuss any applications and customer requirements.

Analytical Spectral Devices Inc **Booth 7**
Amanda Griffin
Marketing Communications Manager
5335 Sterling Drive, Suite A
Boulder CO 80301
USA
Telephone: +1 303 444 6522
Fax: +1 303 444 6825
Email: info@asdi.com
Website: www.asdi.com

Analytical Spectral Devices designs and manufactures the highest quality Vis/NIR spectroradiometers, and the only truly portable, full range field systems for remote sensing. Our instruments are rapid, sensitive, reliable, and rugged enough to maintain laboratory accuracy in the harshest of environments. With all the performance you expect in a lab system, ASD's user friendly instrumentation, accessories, and software are dramatically enhancing the quality, productivity, and efficiency of applications requiring measurement of radiance, irradiance, reflectance, and transmission.

Australian Genome Research Facility Ltd **Booth 19**
John R Stephen, PhD
Agriculture Section Manager
Plant Genomics Centre
University of Adelaide
PMB1 Glen Osmond SA 5064
AUSTRALIA
Telephone: +61 8 8303 7202
Fax: +61 8 8303 7214
Email: agriculture@agrf.org.au
Website: www.agrf.org.au

The Australian Genome Research Facility Ltd (AGRF) is an efficient, industry-accredited facility for the collection of molecular genetic information. The Agriculture section of AGRF is a single point of contact for breeders and researchers, providing upstream plant growth and plant / animal nucleic acid extraction in quarantine and GM-containment approved premises. Nucleic acids are then passed to our DNA sequencing, microsatellite genotyping, SNP detection, microarray fabrication, Affymetrix Genechip™ hybridisation and other resources for mapping, mutation detection, gene expression and associated bioinformatics.

Australian Gifts (Mr Solutions) **Booth 5**
Emma Bowyer
Principal
PO Box 334
West Ryde NSW 1685
AUSTRALIA
Fax: +61 2 9875 4163

Australian Gifts – a great gift idea. Our unique products are hand crafted and painted in Australia and include specially crafted wooden bowls and ornaments from rare Australian timbers of Australian Redgum and Red Cedar. Souvenirs such as authentic Australian aboriginal crafts, proudly designed Australian scarves, a range of fine Australian cotton and wool blend conference polo shirts and caps are also available. Many more special gifts and products with an Australian flavour are on display at Stand 5 in the Exhibition Hall.

CGIAR Challenge Program on Water & Food **Booth 20**
Dr Jonathan Woolley
Coordinator, CGIAR Challenge Program on Water & Food
PO Box 2075
Colombo
SRI LANKA
Telephone: +94 11 2787404
Fax: +94 11 2786854
Email: cpsecretariat@waterforfood.org
Website: www.waterforfood.org

The CGIAR Challenge Program on Water & Food is an international research and capacity building initiative to find ways of growing more food with less water – while improving rural livelihoods and protecting the environment. The initiative brings together water experts, NGOs and river basin communities in Africa, Asia and South America to find solutions to the world's growing water crisis. Its overall goal is to support increases in food production to achieve internationally adopted food security and poverty eradication targets by 2015 – without increasing global diversions of water for agriculture above the levels of 2000. For more information visit www.waterforfood.org.

CID Inc. **Booth 31**
Ying Yan
Sales Manager
4845 NW Camas Meadows Drive
Camas WA 98607
USA
Telephone: +1 360 833 8835
Fax: +1 360 833 1914
Email: sales@cid-inc.com
Website: www.cid-inc.com

CID Inc. designs and manufactures high technology research instruments. We strive to provide an elegant solution to the needs of our customers. This is accomplished by emphasizing feedback and input from scientists all over the world. Come and see the new Soil Profile and Root Growth Monitoring System. The only one of its kind in the world; find out how easy it is to track the root systems of your plants. We will also demonstrate our Photosynthesis Systems, Leaf Area Meters, Plant Canopy Imager, Computer Image Analysis System and Spectrometers.

Crawford Fund **Booth 26**
Cathy Reade
Coordinator, Public Awareness
Hilda Stevenson House
1 Leonard Street
Parkville VIC 3052
AUSTRALIA
Telephone: +61 3 9347 8328
Fax: +61 3 9347 3224
Email: crawford@mira.net
Website: www.crawfordfund.org

The ATSE Crawford Fund community shares a passionate belief that poverty and hunger can be reduced, regional security enhanced and the natural resource base for agriculture improved through the vigorous engagement of Australia and Australians in collaborative international agricultural research, development and education, for the benefit of developing countries and Australia. It assists in the transfer of agricultural technologies to men and women in developing countries through its State and specialist training programs.

CSIRO **Booths 22–24**
Platinum Sponsor

Bag 10
Clayton South VIC 3169
AUSTRALIA
Telephone: +61 3 9545 2176
Fax: +61 3 9545 2175
Email: enquiries@csiro.au
Website: www.csiro.au

CSIRO applies strategic crop science research with a focus on improving yield and quality of crops and the long-term sustainability of farming systems. Partnerships with Australia's cropping industries are a fundamental part of our research. Our research includes sustainable resource management, plant breeding, integrated biological pest management and industry competitiveness.

CSSA (Crop Science Society of America) **Booth 4**
American Society of Agonomy
Crop Science Society of America
Soil Science Society of America
677 South Segoe Road
Madison, WI 53711
USA
Telephone: +1 608-268-4950
Fax: +1 608-273-2021
Website: www.crops.org

The Crop Science Society of America (CSSA) is an educational and scientific organization comprised of members who advance the discipline of crop science by acquiring and disseminating information about crops in relation to seed genetics and plant breeding; crop physiology; crop production, quality and ecology; crop germplasm resources; and environmental quality. Founded in 1955, CSSA has 3,646 members. The CSSA Annual Meeting will be held Oct. 31 to Nov. 4 in Seattle, Washington, USA. For more information, visit www.crops.org.

Decagon Devices Inc **Booth 1**
Matt Galloway
International Sales Manager
950 NE Nelson Court
Pullman WA 99163
USA
Telephone: +1 509 332 2756
Fax: +1 509 332 5158
Email: matt@decagon.com
Website: www.decagon.com/instruments

Decagon Devices has manufactured instrumentation for plant and soil research for over 20 years. Our Ceptometers have been the standards for PAR and LAI measurement; come see the newest version, model LP-80. We will also be exhibiting the ECH2O Soil Moisture probes for long term monitoring of water content, our new leaf wetness sensor, other environmental sensors that connect to the Em5 logger, the WP4 water potential meter, and the Gee passive-capillary lysimeter (Drain Gauge) for studies of drainage below the root zone.

Elsevier **Booth 11**
Mary McAdam
Marketing Manager
Sara Burgerhartstraat 25
Amsterdam 1005 K
THE NETHERLANDS
Telephone: +312 0485 3911
Fax: +312 0485 2457
Website www.elsevier.com

Please stop by the Elsevier booth to look at the latest and greatest resources in the field. Free sample copies will be available of all our top crop science journals and browse our bookstore for new and best-selling titles, where you can take advantage of our special meeting discount (books only). Demonstrations will also be given for our online services including Online Submission on Author Gateway, Science Direct and Scirus.

Fifth International Crop Science Congress **Booth 9**
Professor Ho Jin Lee
Department of Plant Science
College of Agriculture and Life Science
Seoul National University
KOREA

The 5th ICSC will be held at Jeju Island, Korea, from April 13 to 18, 2008. There will be exceptional opportunities to share relevant information among international crop scientists and network regarding professional and scientific associations. Your visit to our booth will be very welcome to obtain information regarding the Jeju convention site, mid-and post-congress tours, as well as congress program and souvenirs.

Grains Research and Development Corporation (GRDC) **Booth 12**
Diamond Sponsor

PO Box 5367
Kingston ACT 2604
AUSTRALIA
Telephone: +61 2 6272 5525
Fax: +61 2 6271 6430
Email: grdc@grdc.com.au
Website: www.grdc.com.au

The Grains Research and Development Corporation's (GRDC) role is to invest in research, development and related activities to benefit Australian graingrowers, the wider grains industry and the Australian community. In doing so, the GRDC invests in research where obstacles to industry's progress exist and where R&D may be effective in overcoming these obstacles. This includes:

- investigating and evaluating the requirements for R&D in the grains industry
- coordinating or funding the carrying out of R&D activities
- facilitating the dissemination, adoption and commercialisation of the results of R&D

ICARDA, VIR & AWCC FIGS Strategy **Booth 21**

Michael Mackay
Curator
RMB 944 Calala Lane
Tamworth NSW 2340
AUSTRALIA
Telephone: + 61 2 6763 1150
Fax: + 61 2 6763 1154
Email: michael.mackay@agric.nsw.gov.au

The Focused Identification of Germplasm Strategy (FIGS) exploits the relationships between genotype and environment to select sets of collected germplasm containing specified genetic variation. The collection site geographic coordinates provide the link between germplasm and the environment where it evolved over millennia. Using geographic information system (GIS) technology each collection site can be individually profiled for available environmental parameters such as precipitation, humidity, temperature, ago-climatic zoning, and soil characteristics.

ICT International Pty Ltd **Booths 2 & 3**

Dr Peter Cull
Principal
PO Box 503
Armidale NSW 2350
AUSTRALIA
Telephone: +61 2 6772 6770
Fax: +61 2 6772 7616
Email: sales@ictinternational.com.au
Website: www.ictinternational.com.au

ICT International is well known for the application of quantitative principles of soil moisture monitoring and plant water use for agricultural and environmental monitoring and research. ICT supplies instruments to measure soil moisture, soil physical properties, plant growth & water use, weather and water quality. ICT has assembled a comprehensive range of instrumentation from leading international manufacturers which, together with the company's own complementary products and expertise enables ICT to offer the best possible solutions to a customer's needs.

ICT is well known in Australia is currently actively seeking customers, distributors and business partners in all parts of the world.

International Foundation for Science (IFS) **Booth 29**
Bronze Sponsor

Brian Porter
Manager, Network and Information
Karlavägen 108, 5th floor
Stockholm SE-115 26
SWEDEN
Telephone: +46 8 545 818 00
Fax: +46 8 545 818 01
Email: info@ifs.se
Website: www.ifs.se

International Foundation for Science (IFS) supports scientific capacity building in developing countries. It gives research grants and supporting services to young scientists at the beginning of their careers to undertake research projects in developing countries. IFS was established as a non-governmental organisation in 1972, is funded by more than 15 donor organisations and has provided over 5,500 grants to researchers in 100 countries. It is supported in an advisory capacity by a network of over 1,000 internationally renowned scientists.

John Morris Scientific Pty Ltd/Li-Cor **Booth 28**

Andre Wyzenbeek
Marketing Director
PO Box 447
Willoughby NSW 2068
AUSTRALIA
Telephone: +61 2 9417 8877
Fax: +61 2 9417 8855
Email: andrew@johnmorris.com.au
Website: www.johnmorris.com.au

Li-Cor and John Morris Scientific will feature the LI-8100 – the new Automated Soil CO_2 Flux System. The LI-8100 is economical, lightweight, rugged, portable and weather tight. It is ideal for short or long term unattended soil CO_2 flux measurements. It can be operated using a laptop or PALM PDA using wireless or serial communication. We will also feature the famous LI-6400 Photosynthesis System which is the market leader in plant gas exchange studies and now available with the option of integrated Fluorescence Measurements.

Kluwer Academic Publishers **Booth 8**

Jacco Flipsen (onsite contact)
PO Box 17
3300 AA Dordrecht
THE NETHERLANDS
Telephone: +31 78 657 6000
Fax: +31 78 657 6254
Email: services@wkap.nl
Website: www.kluweronline.com

Kluwer Academic Publishers provides the highest quality information products and services to academic and corporate researchers in humanities & social sciences, environmental & plant sciences, physical sciences, behavioural sciences, engineering & computer sciences and biosciences. The Kluwer Online gateway at www.kluweronline.com reaches millions of researchers, scientists and professionals in more than 50 countries.

New Zealand Crop Science **Booth 25**

New Zealand Institute Of Crop & Food Research
Nic Lees
Email: leesn@crop.cri.nz
Website: www.crop.cri.nz

Leader in crop production systems and new cultivars that enhance productivity while maintaining environmental quality.

The Foundation for Arable Research (FAR)
Nick Pyke
Email: far@far.org.nz
Website: www.far.org.nz

The organisation responsible to New Zealand grain and seed growers and involved in funding of applied research and technology transfer.

Lincoln University
Dr Derrick Moot
Email: moot@lincoln.ac.nz
Website: www.lincoln.ac.nz

Leader in agricultural teaching and research with an emphasis on temperate crop and pastoral agriculture including cereal and seed cropping.

RSNZ Publishing
David Swain
Email: david.swain@rsnz.org
Website: www.rsnz.org

The major publisher of international research journals in New Zealand.

Orica Watercare **Booth 10**

Lisa Greig
Commercial Manager
Gate 4 Stanford Street
Ascot Vale VIC 3032
AUSTRALIA
Telephone: +61 3 9283 6257
Fax: +61 3 9283 6266
Email: lisa.greig@orica.com
Website: www.orica.com

Orica Watercare has developed a range of products to assist with the management of pesticides in the environment. These enzymes rapidly hydrolyse actives into less toxic, more readily biogradeable metabolites. The range will initially be recommended to assist with livestock and post harvest dip disposal and rinsate from spray equipment, and a sponge impregnated with the enzyme for cleaning up spills. Future directions will include the use of the products in irrigation run-off and removing residues from agricultural produce.

Pioneer Hi-Bred International Inc. **Booths 32 – 35**
Platinum Sponsor

400 Locust Street, Suite 700
Des Moines IA 50309
USA
Telephone: +1 515 270 4000 or +1 800 247 6803 x4000
Email: jobs@pioneer.com
Website: www.pioneer.com/employment

Exceptional people, quality products and cutting-edge research and technology are what make Pioneer Hi-Bred International, Inc., one of the best-known brands in agriculture today. With facilities in nearly 70 countries, Pioneer is leading the world in developing and integrating plant genetics and technologies, providing customers with crop-based solutions that improve and sustain lifestyles for people around the world. Continually building upon a culture that fosters professional excellence, open communication and sharing of ideas, Pioneer recruits the best talent from around the globe. www.pioneer.com

Queensland Department of Primary Industries & Fisheries (DPI&F) **Booths 14–17**
Platinum Sponsor

David Hamilton
General Manager, Plant Science
PO Box 2282
Toowoomba QLD 4350
AUSTRALIA
Telephone: +61 7 4639 8884
Fax: +61 7 4639 8881
Email: david.hamilton@dpi.qld.gov.au
Website: www.dpi.qld.gov.au

The Queensland Government has the largest group of scientists working in crop genetics and modeling, biotechnology, climate research, integrated pest management, product customisation and biosecurity in the southern hemisphere. This world-class R&D group is part of the Department of Primary Industries and Fisheries. The Department of Primary Industries and Fisheries (DPI&F) display will highlight this world-leading research, which is linked to the cropping industries' priorities of sustainable use of natural resources and long-term profitability along the value chain.

Regent Instruments Inc. **Booth 6**

2672 Chemin Sainte-Foy
Sainte-Foy QC G1V 1V4
CANADA
Email: sales@regentinstruments.com
Website: www.regentinstruments.com

Some of our image analysis systems are designed for simple to complex precise morphological analysis of plant leaves, seeds, needles and roots. They also perform colour analysis and quantify insect and disease damage. Our other systems are developed specifically for wood cell anatomy, tree-ring and forest canopy analysis. Our products are known worldwide for their high performance and technological advance. Visit our booth for further information.

Spectrum Technologies Inc. **Booth 30**

Federico Nores
International Sales Manager
23839 W Andrew Road
Plainfield IL 60544
USA
Telephone: +1 815 436 4440
Fax: +1 815 436 4460
Email: info@specmeters.com
Website: www.specmeters.com

Spectrum Technologies, Inc. offers a full line measurement technology for research and commercial growers. Measure nutrient levels, ph, EC, temperature, light exposure, soil moisture and compaction, and more. Our WatchDog™ line of data loggers and weather stations are designed specifically for agricultural research applications. Customers across the globe count on Spectrum's easy to use, dependable technology and knowledgeable staff for their growing needs.

Notes

4ICSC

NEW DIRECTIONS FOR A DIVERSE PLANET

Abstracts