

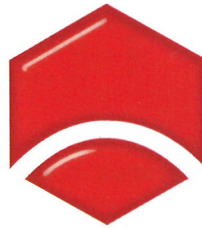
Society for
ENGINEERING
in
AGRICULTURE

The 2011 Society for Engineering in Agriculture Conference

‘Diverse Challenges Innovative Solutions’

Full Conference Proceedings

Individual Papers



ENGINEERS
AUSTRALIA

The 2011 SEAg Conference
'Engineering in Agriculture –
Diverse Challenges Innovative Solutions'

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'Diverse Challenges, Innovative Solutions'



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FOREWORD

Australia is a country of great diversity with extreme agricultural challenges. Innovation has been a prerequisite for the agricultural sector. Currently, the agricultural sector faces intense challenges related to a range of economic, environmental and social factors. Research, development and adoption of new agricultural technologies provide real opportunities to deliver innovative solutions for a variety of agricultural production systems. The 2011 Australian Society for Engineering in Agriculture conference 'Engineering in Agriculture - Diverse Challenges Innovative Solutions' provides a unique forum for local and international delegates to come together, share ideas and thus foster the development of innovative solutions for the benefit of different agricultural industries.

The 2011 SEAg conference offers presentations on wide ranging topics, including sensor development, machine vision applications, post harvest technologies, machinery design, tillage optimisation, irrigation, water, livestock and environmental management, making the conference a truly informative event. Internationally recognised, this conference has received paper submissions from 14 different countries. In particular our South East Asian neighbours are well represented with a very large Chinese delegation visiting us to forge collaborative links with Australian agricultural engineering organisations. Other regions such as Europe and North America are also well represented.

All keynote speakers of the 2011 conference are focusing on commercialisation, arguing that commercialisation should be seen as one of the main venues for technology transfer from research organisations to the private sector.

The organisation of such event on an international scale would not happen without the hard work of the conference organising team. We also would like to thank the contributions of many individuals who have assisted the conference organisers with venue arrangements, paper reviews, editing, and various other tasks. The invaluable assistance of the conference organising section of Engineers Australia is especially acknowledged. We also would like to acknowledge the financial assistance of the main sponsors, including the Sugar Research and Development Corporation (SRDC), Grains Research and Development Corporation (GRDC) and Engineers Australia.

The conference is held at the Hotel Grand Chancellor, Surfers Paradise in the beautiful Gold Coast south of Brisbane. With this in mind we would like to encourage you to full-heartedly participate in the conference, but equally enjoy the Gold Coast and all the region can offer. On behalf of the SEAg and the conference organising committee we would like to wish you a productive and enjoyable time during the 2011 SEAg conference.



Dr. Thomas Banhazi
Chair of SEAg and the Scientific Committee



Mr. Eric Schmidt
Chair of Organising Committee



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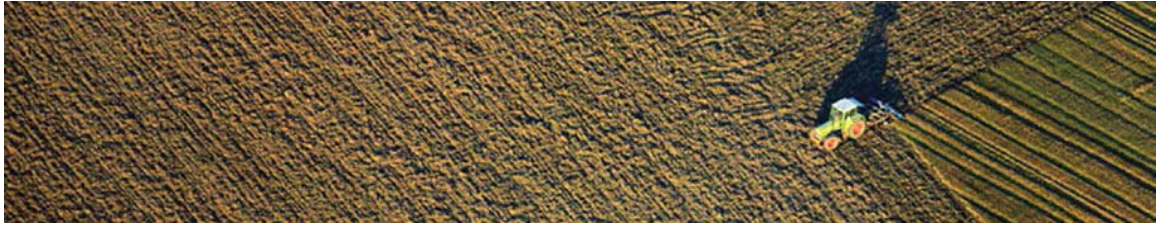
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