In today’s social climate, establishing sustainable agricultural practices around the world is pertinent to humanity’s survival. With rapid population growth, increasing undernourishment and sprawling poverty in some of the world’s poorest nations a collaborative response is required to sprout a solution.

Event overview

The Sydney Institute of Agriculture Development Agriculture Research Symposium will discuss the tremendous technical advancements that have been applied throughout the 20th century to drive sustainable agriculture as well as the persisting issues facing agriculture in developing economies.

The symposium will focus on the interdisciplinary approaches needed to overcome these difficult challenges to ensure we improve the availability, quality and profitability of food production across the world. Researchers from the Sydney Institute of Agriculture will also highlight case studies which apply novel approaches to agriculture and give hope for a sustainable future.

Keynote Speakers:
- Dr Daniel Walker, Chief Scientist, Australian Centre for International Agricultural Research
- Professor André Drenth, The University of Queensland

Event details

Date: Friday 6 July 2018
Time: 8.30am – 5.00pm
Venue: Abercrombie Business School, Lecture Theatre 1040
Costs: Free
Registration: sydney.edu.au/agriculture/outreach-engagement/annual-research-symposium.html
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## 2018 Sydney Institute of Agriculture Research Showcase

### Program

<table>
<thead>
<tr>
<th>Time</th>
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| 8.15am | Registration  
Tea and coffee will be served on arrival |
| 8.30am | Welcome  
- Professor Alex McBratney – Director, Sydney Institute of Agriculture  
- Ms Kate Lorimer-Ward – Deputy Director General, NSW Department of Primary Industries  
- Professor David Guest – Theme Leader, Development Agriculture, Sydney Institute of Agriculture |
| 8.50am | Keynote  
More but different with less – food systems challenges for sustainable development  
Dr Daniel Walker – Chief Scientist, Australian Centre for International Agricultural Research |
| 9.20am | Session 1: Dr Sabrina Lomax (Facilitator)  
**Nutrient recycling in agriculture to reduce greenhouse gas emissions in the Greater Mekong Sub-region**  
Professor Balwant Singh, School of Life and Environmental Sciences  
**Farming systems analysis in Sanza, Majiri and Iwondo wards in Central Tanzania:**  
Implications for small-holder food security and household nutrition  
Dr Floris Van Ogtrop, School of Life and Environmental Sciences  
**Grasses for grain and an Indigenous food landscape**  
Dr Peter Ampt, School of Life and Environmental Sciences  
**Mekong livestock research projects: enhancing smallholder livelihoods through improved health & biosecurity using a marketing focused productivity strategy**  
Dr Isabel MacPhillamy, Sydney School of Veterinary Science |
| 10.20am | Morning Tea |
| 10.40am | Session 2: Dr Rosalind Deaker (Facilitator)  
**Development of a weed identification mobile application for Cambodian rice farmers**  
Associate Professor Daniel Tan, School of Life and Environmental Sciences  
**Development of a Pest ID mobile phone app for Cambodian mungbean farmers**  
Isabel Sinclair-Hinchcliffe, School of Life and Environmental Sciences  
**Digitisation and robotics for development agriculture**  
Professor Salah Sukkarieh, School of Aerospace, Mechanical and Mechatronic Engineering  
**Cheap and rapid technology of soil analysis to support Indonesian farmers**  
Dr Edward Jones, School of Life and Environmental Sciences  
**Molecular wheat breeding produces tangible outcomes in India**  
Professor Richard Trethowan, School of Life and Environmental Sciences  
**Varietal evaluation of Mungbean for short duration and synchronous flowering in NW Cambodia**  
Harry Campbell-Ross, School of Life and Environmental Sciences |
## Time | Activity
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12.25pm | Lunch and Poster board viewing and voting
1.15pm | **Keynote**
| Some observations on my quest for impact in development agriculture  
| Professor Andre Drenth, Centre for Horticultural Science, The University of Queensland
1.45pm | **Session 3: Associate Professor Daniel Tan (Facilitator)**
| Understanding constraints to agricultural development: smallholder cocoa farmers in Sulawesi and Bougainville  
| Professor David Guest, School of Life and Environmental Sciences
| Improving livestock health for food and nutrition security in Timor-Leste  
| Johanna Wong, Sydney School of Veterinary Science / School of Life and Environmental Sciences
| Improving fish health and farm production in marine fish aquaculture in Indonesia and Australia  
| Associate Professor Joy Becker, School of Life and Environmental Sciences
2.45pm | **180-second spiel’ Thesis Challenge**
| - **Beneficial and harmful effect of mustard in wheat-chickpea rotation**  
| Makhdum Ashrafi
| - **And Here’s Your Host, Brought to you by effectors**  
| Michelle Demers
| - **One Health: cocoa farmer, cocoa tree & the environment**  
| Jessica Hall
| - **Impacts of P and its interaction with C, N and plants on N transformation and loss from soil**  
| Kazi Mehnaz
| - **Feeding chickens whole grain for a greater food security outcome**  
| Amy Moss
| - **Identification and quantification of contaminants using spectra signatures**  
| Wartini Ng
| - **Feeding people with fungi**  
| Yolanda Plowman
| - **The energy balance in wheat: tackling heat stress**  
| Maria Ruiz
| - **Things not visible can be a culprit for suppression**  
| Aman Sharma
| - **Why plant agriculture needs a transporter?**  
| Kamal Uddin
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<tr>
<td>3.20pm</td>
<td><strong>Voting for Poster boards</strong></td>
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<tr>
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<td><strong>Announcement of Winners</strong></td>
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<tr>
<td>3.30pm</td>
<td><strong>Wrap-up Summary</strong></td>
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<td></td>
<td><em>Professor Alex McBratney, Director, Sydney Institute of Agriculture</em></td>
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<tr>
<td>3.45pm</td>
<td><strong>Cocktail reception</strong></td>
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