



Conference Series

on Life Cycle Assessment



AgriFoodLCA
23rd to 24th



LCM Australia
24th to 26th



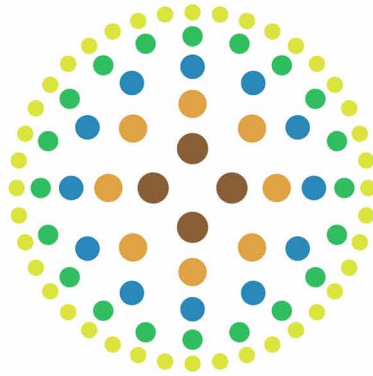
AusBuildLCA
26th to 27th

November 2015
Mercure Melbourne Treasury Gardens

**Presenting new data, tools and approaches
on how to ride the wave of business
opportunities that emerge from
transforming to a more sustainable society**

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**Join the Australian Government's
Rural Industries Research & Development Corporation (RIRDC)
for panel discussion on the drivers for life cycle assessment
investment in agriculture.**

As the global population is expected to hit nine billion by 2050, the demand for food will also increase by an estimated 70%.

Measuring the impact of our food production through LCA improves efficiencies and environmental performance, enabling a more profitable and sustainable rural sector.

Australia's transition to a green economy is underway that applies to all industries but especially agriculture, a sector that relies on valuable but vulnerable land and water resources.



Conference Series

on Life Cycle Assessment



The 1st Life Cycle Assessment Conference for Agriculture and Food

*Monday November 23, 9am to 5.30pm
followed by the AgriFoodLCA Dinner*

*Tuesday November 24, 9am to 4pm
followed by networking and drinks*

The 9th Australian Conference for Life Cycle Assessment and Life Cycle Management

*Tuesday November 24, 2pm to 4pm
followed by networking and drinks*

*Wednesday November 25 9am to 5pm,
followed by the LCM Aust 2015 Dinner*

9am to 12.30pm, Thursday November 26

The 1st Life Cycle Assessment Conference for Building and Construction

*Thursday November 26, 9am to 5.30pm
followed by the AusBuildLCA Dinner*

*Friday November 27, 9am to 3.30pm
followed by networking and drinks*

At the 2015 Australian Life Cycle Assessment Society (ALCAS) Conference Series, you will:

- Examine the drivers and benefits of Life Cycle Assessment
- Gain insight into the latest tools and work together to develop collaborative approaches
- Discuss the role of Life Cycle Assessment in achieving a low carbon economy

Find out more

www.lcaconference.com.au
info@lcaconference.com.au

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Monday

9am	Opening address Conference Chair Tim Grant, Life Cycle Strategies	
9.15am	Special guest speakers Sustainable agriculture and the global food supply chain, Dr Urs Schenker, Sustainability Expert, Nestlé	
10am	Nutrition and the global food supply, Manny Noakes, CSIRO	
10.30am	Greenhouse gas emission intensity and food security trade-offs in meat supply chains, Steve Weidemann, FSA Consulting	
11am	Morning tea break	
11.30am	Agriculture trends and developments Mega trends for global agriculture, Sandra Eady, CSIRO	
11.55am	Can we include biodiversity in LCA? Andrew Moore, Life Cycle Logic	
12.20pm	Including soil quality in LCA - developments from the Bordeaux workshop, Tim Grant, Life Cycle Strategies	
12.45pm	Lunch	
1.30pm	LCA in food and beverage supply chain <i>Fig conference room</i> Methodological framework for life cycle sustainability analysis of the Australian food industry, Murilo Pagotto, University of Queensland	LCA of cropping systems <i>Pear conference room</i> How sensitive is the calculated global warming impact of cotton production in north-west New South Wales to applied N ₂ O emissions values? Mehdi Hedayati, NSW Department of Primary Industries
1.55pm	LCA of Australian salmon, Amy White, Tassal	A review of on-farm energy use benchmarks in the grain and horticultural industries, Guangnan Chen, University of Southern Queensland
2.20pm	LCA of the beer industry in Northern France, Jodie Bricout, cd2e	the use of Monte Carlo analysis to estimate regional impacts of cropping systems, Aaron Simmons, NSW Department of Primary Industries



Monday (cont)

2.45pm	Afternoon tea break	
3.15pm	LCA in food and beverage supply chain <i>Fig conference room</i> The Australian wine industry's environmental assurance program: towards streamlined individual LCAs and a national model, Tadro Abbot, Australian Wine Research Institute	LCA of cropping systems (cont) <i>Pear conference room</i> Product environmental footprint of chicken feed products in Thailand, Prakatham Suksatit, MTEC
3.40pm	KFC Australia's environmental and social farm to fork/finger supply chain engagement project, Jonas Bengtsson, Edge Environment	Carbon footprints of monoculture wheat and wheat-based rotations in south-eastern Australia: certainties and uncertainties, David Herridge, NSW Department of Primary Industries
4.15pm	Panel session Livestock Environmental Assessment and Performance (LEAP) guidelines, Sandra Eady, Steve Weidemann and Beverley Henry	
5.15pm	Closing drinks and networking session	
6.30pm	AgriFoodLCA Dinner \$29 pp	



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Tuesday

8am	Development of LCA guidelines for biofuels and bioenergy project for Australian Renewable Energy Agency (ARENA) Jonas Bengtsson, Tim Grant, Annette Cowie, Scott Grierson	
9am	Conference debate Parochiality in agrifood LCA - the potential effects of Australian production systems outside our borders Chair: Tim Grant	
10am	LCA in dairy production <i>Fig conference room</i> Life cycle environmental consequences of increased milk production by dairy farm intensification in New Zealand, Jeerasak Chobtang, Massey University	Agriculture methodology development <i>Pear conference room</i> Form, fire, fuel and fate in forest product EPDs, Mathilde Vlieg, The Evah Institute
10.25am	A review of on-farm energy use benchmarks in the dairy industry, Guangnan Chen, University of Southern Queensland	Pesticide emissions on farm – consensus approach from the Bordeaux workshop, Tim Grant, Life Cycle Strategies
10.50am	Morning tea break	
11.30am	Innovations in agriculture Vertical farming – the future of high performance crop management, Tony Bundock, Powerplants Australia	Agriculture methodology development The application of consequential life cycle assessment to cotton production, Mehdi Hedayati, NSW Department of Primary Industries
11.55am	Life cycle sustainability assessment and its application potential in the development of sustainable feed production systems – An ex-ante assessment of insect-based feed production, Martin Roffeis and Joana Almeida, KU Leuven, Belgium	The timing of greenhouse gas emissions and removals in life cycle assessment, Annette Cowie, University of New England
12.20pm	Carbon footprint of dairy products: what is the impact of different allocation approaches, Sven Lundie, thinkstep AG / UNSW Water Research Centre	How do we establish methods to assess the impact of agricultural production on soil function and ability of land systems to produce biomass?, Sandra Eady, CSIRO



Tuesday (cont)

Combining AgriFoodLCA and LCMAust2015

12.45pm

Lunch

2pm

Inovations in agriculture

Fig conference room

Recent developments in international standardisation and harmonisation of LCA and footprint practices, Brad Ridoutt, CSIRO

Agriculture methodology development

Pear conference room

Triple bottom line analysis of food systems and food waste, Joe Lane, University of Queensland

2.25pm

Extending LCA in agricultural sectors, Marguerite Renouf, University of Queensland

Assessing the environmental impacts of integrated weed management strategies in pasture systems, Aaron Simmons, NSW Department of Primary Industries

3pm

The Rural Industries Research and Development Corporation (RIRDC) presents:

Drivers for LCA investment in agriculture, Sandra Eady, RIRDC

Panel discussion

The increasing the use of LCA in Australian food sector

Chair: Jodie Bricout

Panel: Jonas Bengston, Steven Weideman, Urs Schenker, Sandra Eady

4pm

Side meeting

ALCAS Agricultural Sector Working Group

4.30pm

Closing drinks and networking game





Wednesday

9am	Opening address Conference Chair Jodie Bricout, cd2e	
9.15am	Opening plenary Sustainable Value Creation at Nestle, Dr Urs Schenker, Nestlé	
9.50am	Update on the government's National Carbon Offset Standard (NCOS) Program, Dr Melanie Kaebernick, Department of Environment	
10.20am	Developments in product Stewardship in Australia, John Gertsakis, Infoactiv	
10.50am	Morning tea break	
11.20am	Enabling LCM in the region and across the globe A global organisation to promote life cycle approaches, Philip Strothmann, Forum for Sustainability through Life Cycle Innovation (FSLCI)	
11.45am	Promoting LCA development in Australia and New Zealand, Tim Grant and Barbara Nebel, ALCAS and LCANZ	
12.10pm	Life cycle approaches as a driver for the circular economy, Jodie Bricout	
12.35pm	Indicators for circular economy, Barbara Nebel, thinkstep	
1pm	Lunch	
2pm	Tools for better LCM <i>Fig conference room</i> LCA and natural capital accounting (NCA) in product design, Barbara Nebel, thinkstep	Communicating LCM <i>Pear conference room</i> Enhancing communication to mainstream life cycle management, Philip Strothmann, FSLCI
2.25pm	What every LCA professional needs to know about GIS, Andrew D Moore, Life Cycle Logic	Changing our tune: same meaning, different song, Nicole Sullivan, BlueScope



Wednesday (cont)

2.50pm	Recommended impact assessment guidelines for Australia, Marguerite Renouf, University of Queensland	Implementing life cycle thinking for society, Dr Sean O'Malley, Planet Ark
3.15pm	Afternoon tea break	
3.45pm	Good management needs good data - latest developments in databases <i>Fig conference room</i> The lessons learned from the data quality improvement for Thai National Life Cycle Inventory, Nongnuch Poolsawad, National Metal and Materials Technology Centre	New methods in life cycle management beyond LCA <i>Pear conference room</i> Social LCA: informing LCM strategy, Maartje Sevenster, Sevenster Environmental
4.10pm	AusLCI – critical mass achieved! Away we go, Tim Grant, ALCAS President	Life-cycle based water footprinting methodology in the production of metal commodities, Stephen Northey, Monash University
4.35pm	Enhancing LCA with the Australian Industrial Ecology Virtual Laboratory, Joe Lane, University of Queensland	Life cycle sustainability assessment and its application potential in product development: an ex-ante assessment of insect-based feed production, Martin Roffeis, KU Leuven, Belgium
5pm	Closing drinks and networking	
6pm	LCM Aust 2015 Dinner \$29 pp	





Thursday

Combining LCMAust2015 and AusBuildLCA

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|---------|---|
| 9am | Opening address
Conference Chair Rob Rouwette, start2see / Energetics |
| 9.15am | Opening plenary
The growing role of LCA in the global building and construction sector,
Joep Meijer, The Right Environment |
| 10am | LCA and Designing for Hope, Dominique Hes, Melbourne University |
| 10.30am | Morning tea break |
| 11am | Sustainable buildings and construction, sustainable consumption and production,
10FYP at UNEP, Usha Iyer-Raniga, RMIT University |
| 11.30am | Green Star: LCA, EPDs and the future, Karl Desai, Green Building Council Australia |
| 12pm | Technology challenges and opportunities for sustainable buildings,
Alan Pears, RMIT University |
| 12.30pm | Lunch |





Thursday (cont)

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|--------|--|
| 1.30pm | <p>LCA and infrastructure</p> <p>Developments in the Infrastructural Sustainability Tool,
Rick Walters, Infrastructure Sustainability Council of Australia (ISCA)</p> |
| 1.55pm | <p>TfNSW's LCA based CERT-tool is now mandatory for large infrastructure projects,
Rob Rouwette, Energetics</p> |
| 2.20pm | <p>TAGG Workbook (Carbon Gauge) and the role of LCA, Simon Renton, VicRoads</p> |
| 2.45pm | <p>LCA in industry: a material supplier's perspective on the use of LCA in infrastructure,
Ross Brookshaw, Downer Group</p> |
| 3.10pm | <p>Afternoon tea break</p> |
| 3.40pm | <p>LCA of buildings</p> <p>Carbon footprint and embodied energy consumption saving opportunities for Western
Australia's housing industries: a life cycle management approach, Krishna Kumar Lawania,
Curtin University</p> |
| 4.05pm | <p>A quantitative analysis, measuring the relationship between level of life cycle cost, designer
involvement, design quality and the value of improvements for commercial CBD assets within
Sydney, Maryam Litkouhi</p> |
| 4.30pm | <p>Life cycle carbon footprint of public buildings: A case study of Canada,
Kasun Hewage, University of British Columbia</p> |
| 4.55pm | <p>How to account for carbon storage in global warming potential (GWP) results,
James Logie, Edge Environment</p> |
| 5.30pm | <p>Closing drinks and networking</p> |
| 6.30pm | <p>AusBuildLCA Dinner \$29 pp</p> |



Friday

9am	Conference debate Climate change is all that matters – other indicators are not worth the carbon stored in the paper they are printed on Chair: Jodie Bricout Panel: Rob Rouwette, Richard Haynes, Tim Grant	
9.40am	EPD and ecolables, materials, LCI <i>Fig conference room</i> EPDs for associations: successes and challenges in the Australian timber products industry, Stephen Mitchell	Building LCA modelling tools <i>Melon conference room</i> Simplifying building LCA, Richard Haynes, eTool
10.05am	EPDs: enabling quality LCA of the built environment, Nicole Sullivan, BlueScope	Comprehensive dynamic LCA/LCC from inception: introducing ENVEST, Nigel Howard, Clarity Environment
10.30am	Floorcovering LCA for ecolabelling in Australia, Shloka Ashar, Global Green Tag	Development of ESD Manager for Capital Works, Peter Shuey, ACXargyle
10.55am	Morning tea break	
11.25am	Benefit metrics for environmental building declarations: The balancing act between simple communication and scientific rigour – a critique of the development and use of weighting in LCA, Gaya Gamage, thinkstep	The life cycle advantages of using stainless steel, Dr Graham Sussex, Sussex Materials Solutions
11.50am	Synthetic fibre LCA for ecolabelling, Omar Biaz, Global Green Tag	Life cycle inventory of cement and concrete produced in Australia, Brett Sharma, Life Cycle Strategies
12.15pm	The successful realisation of the business value for LCA at David Trubridge, Jeff Vickers, thinkstep	Hybrid LCA for construction materials, Soo Huey The, UNSW Water Research Centre
12.40pm	Product environmental footprint for thermal insulation materials, Jodie Bricout, cd2e	Energy consumption analysis and life cycle assessment of resin infusion process for thermosets composites, Tiange Lu, University of Auckland



Friday (cont)

1.05pm

Lunch

2pm

Panel discussion

Challenges for LCA in building and construction

Joep Meijer, David Baggs, Barbara Nebel, Rob Rouwette, Nicole Sullivan and Rick Walters

3.30pm

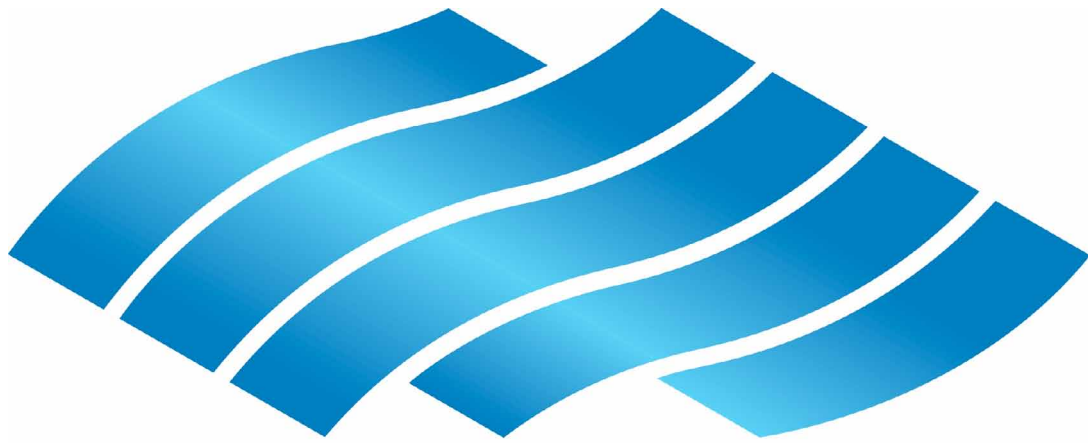
Closing drinks



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Life Cycle Assessment helps agriculture

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About ALCAS

The Australian Life Cycle Assessment Society (ALCAS) is Australia's peak professional organisation for people involved in the use and development of Life Cycle Assessment (LCA), management and thinking. ALCAS was established in 2001, an important milestone in Australia's development of LCA. It was incorporated to promote life cycle practices and sustainable development, and to coordinate the rapidly growing professional community in Australia. A not-for-profit organisation, ALCAS has individual and corporate members from industry, government, academia and service organisations. We welcome membership from people interested in the practice, use, development, education, interpretation of and advocacy for life cycle based approaches. Below are just five of our key programs we provide to promote and support LCA in Australia. To join ALCAS, go to our website at www.alcas.asn.au Corporate membership is \$990, individual is \$99 and student membership is \$33.

Australasia EPD Program

ALCAS and its sister organisation in New Zealand LCANZ run the Australasian Environmental Product Declaration (EPD) program to bring credibility, consistency and independence to environmental product declarations in the Australasian region. The Australasian EPD[®]

Programme is aligned with its partner organisation, the International EPD[®] System, to enable a harmonised and efficient platform for global EPD[®] development and communication. More information is available at www.epd-australasia.com



Practitioner Certification

ALCAS and LCANZ are now able to offer suitably qualified and registered members of both organisations the ability to become certified as Life Cycle Assessment Certified Practitioners (LCACPs). The rigorous certification aims to provide Australasian companies with confidence in LCA professionals being competent and up to international standards. Find out more at <http://certification.alcas.asn.au>

AusLCI database

The aim of the Australian National Life Cycle Inventory Database (AusLCI) is to provide a national, publicly-accessible database with easy access to authoritative, comprehensive and transparent environmental information on a wide range of Australian products and services during their entire life cycle. The database currently contains more than 300 Australian unit processes with many more on the way. To learn more, visit www.auslci.com.au



Methodology development

ALCAS has recently released a Best Practice Guide on Life Cycle Impact Assessment which provides recommendations for undertaking impact assessment in Australia taking account of the available impact methods published worldwide. A part of the project, specific Australian factors have been published for human and eco toxicity and water stress indices. It can be downloaded from the ALCAS website at www.alcas.asn.au

Student Support Program

This is a new program due for launch early in 2016. It aims to provide support to post graduate students working in LCA by connecting them through regular webinars where LCA practitioners and industry professionals will present on important and cutting edge LCA topics and case studies, alongside presentations by the students themselves. It will be a safe supportive forum where students can share experiences and learn from both professionals in the industry and other students. If you are interested in the program contact ALCAS on info@alcas.asn.au or you can join ALCAS as a student member.