The 12th Australian Conference on Life Cycle Assessment Conference Program

Novotel Melbourne On Collins, 270 Collins St, Melbourne VIC

(Note: Presenter name not included in the program at this stage, due to a blind review of papers in progress. Presenter names will be added once reviews are completed around end September 2025)

Monday 17th November: Workshops and Side Events

A program of workshop and side-events is in development for the day prior to the conference. They will be held either at the conference venue or at other venues in Melbourne. Details to follow shortly.

8:30am- 5:30pm	Workshops and side events	
	Social event – Details TBA	
5:30 – 7:00pm	Venue TBA (close to Novotel conference venue)	

Tuesday 18th November: Day One

8:30am	Arrive from 8:30am to check in, collect name tags, etc.	
	Welcomes & Keynote Presentations	
	Australia Room 1+2 + 3	
	Acknowledgement of Country	
	TBC	
	Welcome from Conference Committee / Scientific Committee	
9:00am-11am	Marguerite Renouf and Olubukola Tokede	
	Keynote Presentation:	
	Prof. Arnold Tukker, Chair/professor of Industrial Ecology, CML, Leiden University	
	Keynote Presentation:	
	TBC	
11am-11:30am	Morning Tea – Sponsored by start2see	
	<u>Plenaries Presentations.</u>	
	Australia Room 1+ 2+3	
	Plenary Presentation - Environmental Data, Reimagined	
	Nickolas Meyer, CEO, ecoinvent	
	Plenary Presentation - Perspectives from Japan	
11:30am-1pm	Masahara Motoshita, National Institute of Advanced Industrial Science and Technology, Japan	
	Plenary Presentation - Perspectives from New Zealand	
	Barbara Nebel, President, Life Cycle Association of New Zealand (ALCANZ)	
	Plenary Presentation - ALCAS President address	
	TBC	
1pm-2pm	Lunch – Sponsored by start2see	

Tuesday 18th November: Day One Cont.

	Methodology - Inventory	Industry session I - Environmental Product
	Chair: TBC	Declarations (EPD)
	Australia Room 2 + 3	Chair: TBD; Sponsor: EPD Australasia
		<u>Australia Room 1</u>
	Recent developments in the Aus Lifecycle	Communication of OA manufaction in EDDs 14/15
	Inventory Database (AusLCI) Tim Grant	Communicating LCA results via EPDs: What are EPD Owners telling us?
	Tim Grant	Stephen Mitchell
2pm-3:30pm	AutoLCA: Development of an automation code	Otephen Piltonett
_р отобр	for LCA unit process creation, LCIA	Confessions of an EPD Verifier: Part II - AI, Tools,
	calculation, and graphical representation	and Evolving Product Category Rules
	Nicole Bamber	Andrew Moore
		10 years of BlueScope EPDs – learnings and next
	What people just don't understand about LCA	steps
	Nicole Sullivan	Phillipa Stone
		Domain-Specific Large Language Model for
		Environmental Product Declaration Report
		Verification
		Olubukola Tokede
0.00		Panel Session
3:30pm-4pm	Afternoon Tea – S	ponsored by start2see
	Methodology - Impact Assessment	Industry Session - LCA in Practice
	Chair: TBC	Chair: TBC; Sponsor: BlueScope Steel
	Australia Room 2+3	Australia Room 1
	Midpoint characterization model for water	Using LCAs to Support Fortescue's Sustainability
	consumption impacts on aquatic ecosystem:	Journey and LCA Capacity Building
	RESCUE model	Ilka-Rose Mitchell
	Masaharu Motoshita	From Transparency to Impact: Advancing Embodied
	Sustainability of global abiotic resource	Carbon Reduction in the Australian Construction
	production: Integrating regional water	Industry
4pm-5:30pm	constraints into life cycle-based assessment	Evan Smith
-	Kamrul Islam	
		The Power of Early-Stage LCA: Driving Sustainable
	Multicriteria analysis for evaluating trade-offs -	Design Decisions Before It's Too Late
	Supporting decision-making in scaling up	Fei Ngeow
	circular economy innovations Mayuri Wijayasundara	Bridging the Gaps: Aligning Industry Needs with
	iriayun vvijayasunuara	Robust Sustainability Methods
	Comparison of LCIA approaches in a farming	William Westaway and Patrick Jeannerat
	case study	,
	Maatje Sevenster	MINI POSTER Presentation TBC
		Unlocking Impact: The Essential Role of
		Communication, Stakeholder Engagement, and
		Marketing in Lifecycle Assessment
6:30nm	Walas	Sanith de S. Wijeyeratne
6:30pm		nue TBC
	VAL	THE IBC.

Wednesday 19th November: Day Two

	Agriculture - methodology	<u>Building - Methodology</u>
	<u>Chair: TBC</u>	<u>Chair: TBC</u>
	Australia Room 2+3	<u>Australia Room 1</u>
	Updates to Australian agricultural LCI data in AusLCI	Tackling Uncertainty in the LCA of Relocatable Modular
	Isobel Hume	Buildings using Machine Learning Algorithms Olubukola Tokede
	Developing a national standard for on-farm GHG accounting	Overcoming Data-Intensive Challenges in Building Life Cycle Assessment
9am- 10:30am	Annette Cowie	Francisco Carbajal
	Life cycle optimization of Canadian egg production for least environmental impacts and best animal welfare outcomes Ian Turner, Canada	Digital Life Cycle Assessment for Sustainable Construction: A Review Evelyn Liew
	Partially dynamic life cycle assessment of Canadian egg production, differentiated by housing system and hen feather colour	Investigating the environmental impacts of Australian buildings beyond embodied emissions: a spatially explicit, cradle-to-gate multi-indicator analysis Narges Emami
	lan Turner, Canada	
		MINI POSTER Presentation Integrating Circularity Metrics into LCA: A Framework Based on Published EPDs in the Building Sector Shadia Moazzem and Jyothi Ajith
10:30am-	Mor	rning Tea
11am	1101	ming lea
	Agriculture - GHG emission reduction	Building - Case studies
	<u>Chair: TBC</u>	Chair: TBC
	Australia Room 2+3	Australia Room 1
	Carbon footprint of global wheat production and	Unlocking Rapid Scaling Product Carbon Footprint
11am- 12:30pm	opportunities for decarbonisation Nazmul Islam	Declarations Jee Wei Tay
	From Waste to Resource: Biochar as a Carbon- Reducing Strategy in Philippine Rice Farming Bernadette Tongko-Magadia	A dual-functional unit framework for life cycle assessment in residential buildings: a proposition towards absolute impact reductions Gerasimos Christoforato
-	LCA of water delivery infrastructure and irrigation	
	technologies employed in cherry production in the Okanagan Valley (Canada) Nicole Bamber	Assessing the global economic impacts of floods and their potential propagation through international trade Slim Mtibaa
	Pathways to Carbon Neutrality: A Comprehensive Baseline Carbon Account for the Agriculture Sector in Northern Rivers NSW	Tackling embodied carbon in Australia's built environment Nicole Sullivan
10.20	Md Noor E Alam Siddique	unah
12:30pm- 1:30pm		-unch
	Agriculture - Horticulture	<u>Infrastructure</u>
	<u>Chair: TBC</u>	Chair: TBC
	Australia Room 2+3	Australia Room 1
	Understanding the Challenges in Agricultural	Multi-Method for Assessing the Environmental
	LCAs: A Case Study of Australian Onions Chanjief Chandrakumar	Performance of Highways – A case study in Germany Bruna Pereira de Souza

	Life Cycle Environmental Impacts of Melons	Life cycle assessment of an Australian higher	
1:30pm-	Production in Australia	education institution – the case study of the QUT	
3pm	Haoran (Harry) Lei	Leonie Barber	
Spili	Haoran (Harry) Ler	Leonie Barbei	
	PEF Benchmarking of Apple Production in the	Operationalising LCA in Facility Management:	
	Okanagan Valley, Considering the Use of Bark	Capturing Infrastructure Dynamics to Support AASB S1	
	Mulch to Meet Benchmark Requirements	and S2-Aligned Sustainability Reporting	
	Jareb Brown	Chalaka Fernando	
	Jarob Brown	Chataka i omando	
		Assessment of the Baseline Carbon Footprint of the	
		University of the Philippines Los Baños	
		Rex Demafelis	
3pm-			
3.30pm			
	Food	Circular Economy	
	Chair: TBC	Chair: TBC	
	Australia Room 2+3	Australia Room 1	
	Nutritional life cycle assessment (LCA) of shifting to	Life Cycle Assessment of Different Pathways for End-	
	pulses from animal sourced foods: an Australian	of-Life Management of LDPE Packaging Waste	
	case study of hummus versus ham sandwich	Sohelia Ghafoor	
	Adeline Lanham		
	A review of recycling allocation methods in life cycle	Enabling Circularity in 3D Printing: LCSA of Recycled	
	assessments of food waste reduction strategies	PLA Gear Components	
	within a circular economy framework	Mohammad Raquibul Hasan	
	Nisansala Ranundeniya		
		The Effect of Upcycling and Downcycling on	
	Reducing Emissions in Cold Chain Grocery	Emission Factors: A Qualitative Framework for	
	Transport: A Life Cycle Assessment of Passive	Circular Economy in Industrial Waste Treatment	
	Cooling with PCMs	Sepideh Moshrefi	
	Xiaolin Wang		
		The Cookware Company- Using Life Cycle	
		Assessment to guide industry giant to reduce	
		cookware carbon footprint	
		Kasia Pitman	
6pm	Conference Dinner		
	Venue TBC		

Thursday 20th November: Day Three

8:00- 9:00am	ALCAS meeting (for ALCAS members) Elizabeth Room		
	<u>Transport</u> <u>Chair: TBC</u> Australia 2+3	<u>Bio-based products</u> <u>Chair: TBC</u> <u>Australia 1</u>	
	Future-oriented LCA of emerging SBC technology within transportation Natalia Sieti	A cradle-to-gin-gate GHG assessment of global cotton lint production and mitigation scenarios Marie-Chantal Pelletier	
	Comparative LCA of OTR tyre repair programme Pasindu Samarakkody	Evaluating the Environmental Impact of Australian Hempcrete Using a Life Cycle Assessment Approach Nazmul Islam	
9am- 10:30am	Integrating Life Cycle Thinking Principles in Transport Infrastructure Design and Maintenance Ronald Meyer	MINI POSTER Presentation GHG Emission Assessment of Industrial Hemp Cropping Across Australia Regions	
	Life cycle assessment of waste tyre treatment technologies in Australia Dileep Kumar	Dhenber Lusanara MINI POSTER Presentation TBC	
	Dicecp Kumai	Evaluating Ethanol's Role in Transport Sector Decarbonization: Ex-Ante Cases for Indonesia and Vietnam	
10:30am-	Morn	Anna Elaine Matanguihan ing Tea	
11am			
	Energy Chair: TBC Australia 2+3	Health Care Chair: TBC Australia 1	
	Hydrogen's Hidden Footprint: A Comparative LCA of Hydrogen Production Technologies Umar Maqbool	Incorporating LCA into healthcare decision making Scott McAlister	
11am- 12:30pm	LCA of the use of renewable sourced hydrogen for fuel cell electricity generation Mutah Musa	Life cycle assessment of emerging PFAS removal technologies in drinking water treatment in Sweden Sabrina Altmeyer Mendes	
12.00pm	Decarbonising Electricity for Recycling: Impacts on Municipal Waste Glass Recovery in Victoria TBC Jingzuan Zhang	Does reusable mean less environmental impact? A systematic review of the environmental impacts of medical plastics, challenges, and gaps Girum Gebremeskel Kanno	
	MINI POSTER Presentation Environmental impacts and trade-offs for New Zealand's Energy System: A LCA perspective for the present and future		
12:30-	Francisco Javier Astorga Mendoza	nch	
1:30pm	Lu		
	Closing Plenaries Australia 1+2+3		
1.20		Panel	
1:30- 3:00pm	Best Student Presentation Award People's Choice Award		
-	Conference close - ALCAS Executive		
3:00- 4:00pm	Afternoon Tea		