

# Resume for Timothy Grant

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## Qualifications

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### Deakin University, Rusden, Melbourne, 1991

- Bachelor of Applied Science in *Environmental Assessment and Land Use Policy*

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### RMIT University, Melbourne, 1998

- Master of Engineering in *Cleaner Production*
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July 2003 - Present Life Cycle Strategies Pty. Ltd Melbourne

### Founder and Director - Life Cycle Strategies

Life Cycle Strategies (LCS) is a premium supplier of Life Cycle Assessment (LCA) services in Australian. Projects include:

- **Agriculture** - LCA of beef trends in Australia with QUT. .  
- Development of national agricultural inventory data for the RIRDC.
- **Buildings** - Development of LCI inventory database for E-tool  
- LCA of 131 Bourke St Melbourne for Set Metrics
- **Fuels** - Life Cycle Assessment of LCA of methanol blended fuels
- **Food** - Development of greenhouse gas emission factors such as the Food and Grocery factors for the Australian Greenhouse Calculator
- **Infrastructure** - Carbon footprint of development infrastructure at Lochiel Park SA
- **Packaging** LCA of EPS boxes compared with reusable crate systems for fresh food.
- **Reviewing** Critical reviewing of LCA studies in building, packaging, chemicals, energy and agriculture for studies in Australia, New Zealand United States and Mexico
- **Training** - LCA training both in- house and enrolled courses delivered online.
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June 2003 - Present CSIRO Melbourne

### Adjunct Research Fellow, CSIRO Division of Atmospheric Research

Primary role is to provide LCA capabilities on a range of projects at the Division including assessment of alternative fuels and vehicle technologies, LCA of maize production from paddock to corn chips and Assessment of Algae production systems in Australia.

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Oct 2008 –Oct 2010 RMIT University Melbourne

### Adjunct Professor, Centre for Design at RMIT

- Primary role is to provide research leadership on range of sustainability assessment tools and approaches including Life Cycle Assessment and Ecological footprint analysis.

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Aug 1996 – Sept 2007 Centre for Design RMIT University Melbourne

### Assistant Director Centre for Design at RMIT (2003) & Program Manager, LCA, Centre for Design at RMIT

Primary role is to develop and manage the LCA program as a key part of the EcoDesign and sustainable building programs at the Centre. Specific activities and projects include:

- Assessment of Waste Management Options for Victoria for EcoRecycle Victoria
- Running professional development courses throughout Australia and Asia in LCA attended by industry, government, consultants and key research institutions
- Developing ecological footprint questionnaires and conversion factors for Victorian EPA Ecological Footprint Pilot Project

## Associations, Memberships and Awards

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2012 - 2013

Judging Panel for Victorian Premiers Sustainability Awards, Innovative Product Category.

2003 – Present

Founding President of Australian Life Cycle Assessment Society (ALCAS), currently hold position of Treasurer.

2008 - Present

Member of International Advisory Committee for ecoinvent.

2012 – 2013

Chair of Conference Committee organizing 8<sup>th</sup> Australian Conference on Lifecycle Assessment

2001 - Present

Member of Australian Standards Committee EV5 Life Cycle Assessment 2001- present

## Publications

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### Books and book contributions

Flesch, A., T. Beer, P. Campbell, D. Batten and T. Grant (2013). Greenhouse Gas Balance and Algae-Based Biodiesel. Algae for Biofuels and Energy. M. A. Borowitzka and N. R. Moheimani, Springer: 233-254.

Horne, R., T. Grant and K. Verghese (2009). Life cycle assessment : principles, practice and prospects. Collingwood, Vic., CSIRO Publishing.

Grant, T. (2007). Policy Approaches Incorporating Life Cycle Assessment. Steering Sustainability in an Urbanizing World: Policy, Practice and Performance. A. Nelson, Ashgate: 55-68.

Lewis, H., J. Gertsakis, T. Grant, N. Morelli and A. Sweatman (2001). Design+Environment: A Global Guide to Designing Greener Goods. Sheffield, UK, Greenleaf Publishing Limited.

Macdonald, F., Tim Grant, G. Girardi, P. Sutton and F. Grey, "Regulating Waste: Research into Government Measures to Encourage Minimisation and Recycling of Post-Consumer Wastes in Australia": Final Report for the Western Regional Waste Management Group, Victoria, Monash Publications in Geography, Number 47, 1996.

### Journal Papers

Lee Chang, K., L. Rye, et al. (2014). "Life cycle assessment: heterotrophic cultivation of thraustochytrids for biodiesel production." Journal of Applied Phycology: 1-9.

Tjandraatmadja, G., A. K. Sharma, T. Grant and F. Pamminer (2013). "A Decision Support Methodology for Integrated Urban Water Management in Remote Settlements." Water Resources Management 27(2): 433-449.

Ximenes, F. A. and T. Grant (2013). "Quantifying the greenhouse benefits of the use of wood products in two popular house designs in Sydney, Australia." The International Journal of Life Cycle Assessment: 1-18.

Eady, S., A. Carre and T. Grant (2011). "Life cycle assessment modelling of complex agricultural systems with multiple food and fibre co-products." Journal of Cleaner Production.

Sharma, A. K., G. Tjandraatmadja, A. L. Grant, T. Grant and F. Pamminer (2010). "Sustainable sewerage servicing options for peri-urban areas with failing septic systems." Water Science & Technology 62(3): 15.

Grant T, Beer T. 2008. Life-cycle assessment of greenhouse gas emissions from irrigated maize and their significance in the value chain. Australian Journal of Experimental Agriculture. 48: 375-381.

Beer, T. and T. Grant (2006). "Life-cycle analysis of emissions from fuel ethanol and blends in Australian heavy and light vehicles." Journal of Cleaner Production 15(8-9): 833-837.

Grant, T. (2003). "Maximising Resource Recovery from the Waste Stream." Environmental Progress, American Institute of Chemical Engineers December 2003.

Grant, Tim and M. Hallman. "Urban domestic water tanks: life cycle assessment." Water August 2003: 22-27.

Beer, Tom, Tim Grant, D. Williams and H. Watson,. "Fuel-Cycle greenhouse gas emission from alternative fuels in Australian heavy vehicles." Atmospheric Environment 36: 2002 p753-763.

James, K. L., Tim Grant and Kees Sonneveld, "Stakeholder Involvement in Australian Paper and Packaging Waste Management LCA Study." The International Journal of Life Cycle Assessment: 2001.