



## Ecotourism Australia's 2006 International Conference

### Workshop 3: Sustainable Design & Practice – Delivering Profitability

31 October – 1 November

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## Regional Themed Streams:

1. Delivering on the Promise:  
The Future of Australia's World Heritage & Natural Heritage Sites
2. Impacts of Climate Change:  
The Challenge for the Future
3. Sustainable Design & Practice:  
Delivering Profitability
4. Thematic Interpretation & Cultural Tourism





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## Sustainable Design & Practice – Delivering Profitability

*The aim of the workshop is to use a rigorous 'Design Charette' process to facilitate a structured but innovative design space. We will use a mock Ecotourism Facility on an existing building & site.*

Participants will gain first hand experience in the **Design Charette** process as a tool to bring about **improved outcomes in sustainability in ecotourism facilities**.

Combination of presentations, facilitated sessions, a site visit and walk-through.

Consideration of aspects such as renewable energy, eco-efficiency, adaptation to climate change, ecotourism accreditation/certification, facilities management and marketing.

*Suitable for delegates involved in* the planning and refurbishment of eco-tourism facilities, from technical design experts (eg engineering, architecture, planning etc), to community representatives, local government & business.





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### Workshop Facilitators



#### Ms Cheryl Paten

Education Coordinator  
The Natural Edge Project  
[cheryl@naturaledgeproject.net](mailto:cheryl@naturaledgeproject.net)

Lecturer, Griffith School of Engineering  
(Centre for Environmental Systems Research)  
(Centre for Environment, Population & Health)

#### Mr Nick Palousis

Operations Coordinator  
The Natural Edge Project  
[nick@naturaledgeproject.net](mailto:nick@naturaledgeproject.net)

PhD Candidate, University of South Australia  
(School for Advanced Manufacturing)

*Greenhouse Gas Emissions for TNEP team travel in 2006 offset by Ergon Energy.*





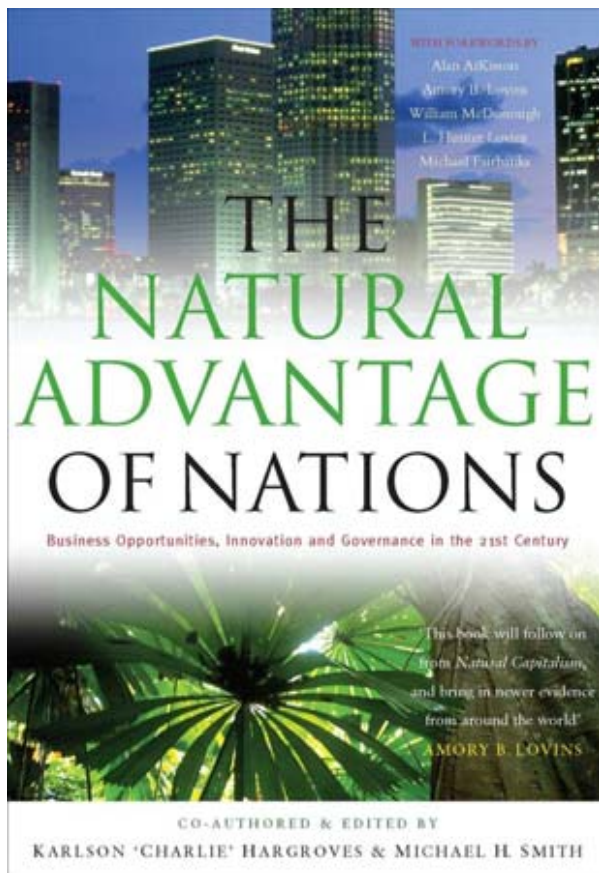




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**This book is about innovation, solutions, competitiveness and profitability.**

**It is also about building environmental integrity and sustainability now and for future generations.**

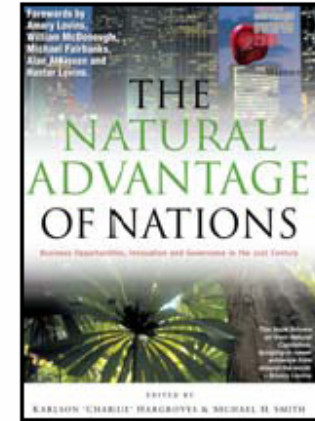
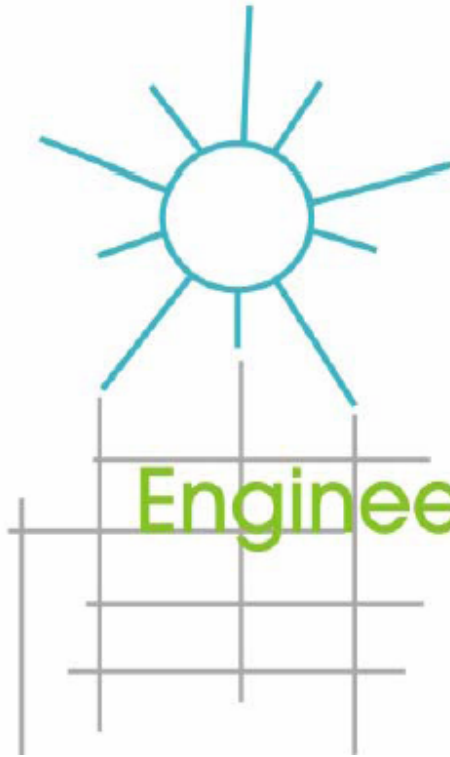
***The Natural Advantage of Nations:  
Online Companion***

[www.thenaturaladvantage.info](http://www.thenaturaladvantage.info)



The Natural Edge  
PROJECT





# Engineering Sustainable Solutions Program



The Natural Edge  
P R O J E C T



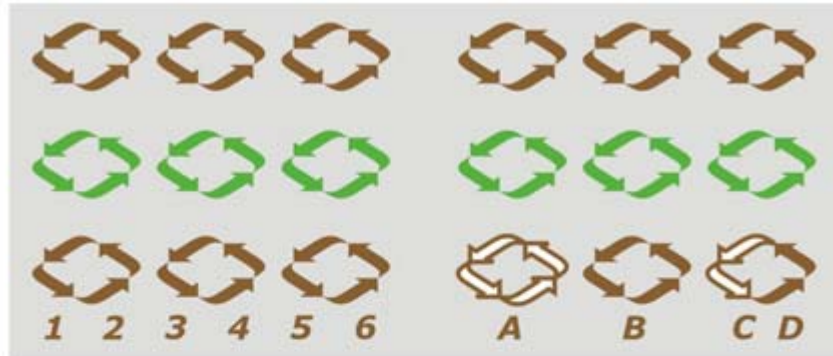
The Engineering Sustainable Solutions Program has been developed through grants provided by Engineers Australia, UNESCO, Society for Sustainability and Environmental Engineering and the Australian Government Department of the Environment and Heritage.



The Role of Engineers in Sustainability Short Course is delivered in partnership with RMIT and Griffith University.

# Engineering Sustainable Solutions Program: Critical Literacies Portfolio

Level 1

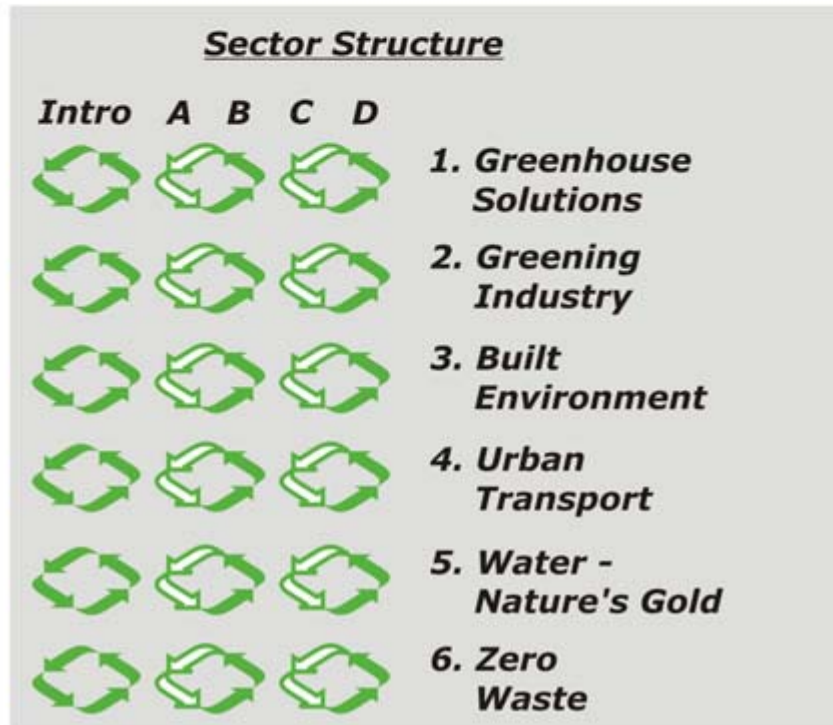


*Engineering Sustainable Solutions 1 & 2*

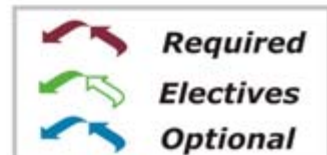
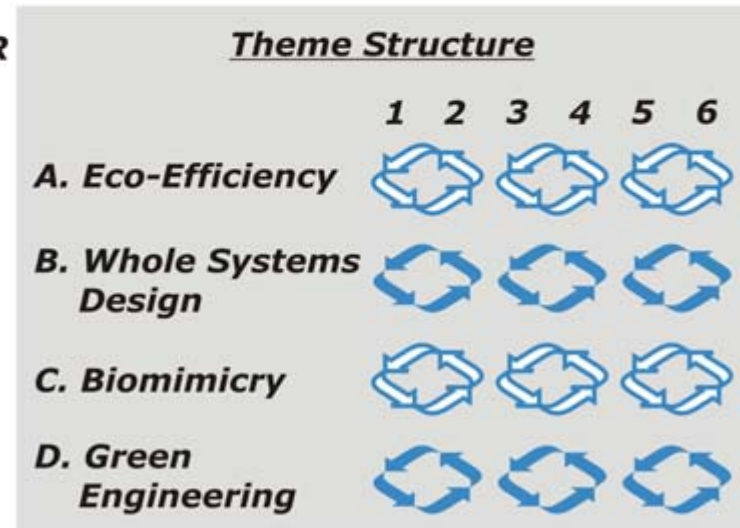
*Engineering Poverty Eradication 1 & 2*

*Engineering Sustainable Cities 1 & 2*

Level 2



OR







## ***1 Day Introduction: The Role of Engineers in Sustainability***



**Cheryl Paten**

**Short Course Facilitator**  
Education Coordinator TNEP  
Co-author '*The Natural  
Advantage of Nations*'  
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**Charlie Hargroves**  
**Short Course Facilitator**

Coordinator TNEP  
Co-editor '*The Natural  
Advantage of Nations*'  
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## Engineering Sustainable Solutions Program: Design Practices Portfolio

	Level 1	Level 2					
	<i>Theory: Principals &amp; Checklists</i>	<i>1. Greenhouse Solutions</i>	<i>2. Greening Industry</i>	<i>3. Built Environment</i>	<i>4. Urban Transport</i>	<i>5. Water - Nature's Gold</i>	<i>6. Zero Waste</i>
<b>A. Eco-Efficiency</b>							
<b>B. Whole Systems Design</b>							
<b>C. Biomimicry</b>							
<b>D. Green Engineering</b>							



	<b>Required</b>
	<b>Electives</b>
	<b>Optional</b>



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# Why the Design Charrette Process?

- Established method internationally
- Existing Ecotourism Australia
  - Ecocertification Program
  - Design Checklists across themes
- Collaborative Process
- Draws on Participant Strengths





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### Design Charrette Workshop – Day 1:

#### Eco-Design Principles – Individual Exercise

Southbank Conference Centre: 10.25am – 11.25am (1 hour)

#### Eco-Design Principles – Group Exercise

Southbank Conference Centre: 12.30pm – 2.30pm (2 hours)

#### Facility Site Audit - Scenario

Pallarenda Quarantine Station: 2.30pm – 4.00pm (1.5 hours)







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### Design Charrette Workshop – Day 2:

#### Facility Audit Review & Presentations

Southbank Centre:                      9.00am – 12.00pm                      (3 hours)

#### Facility Audit Conclusions & Debrief

Southbank Centre:                      12.00pm – 12.30pm                      (0.5 hours)





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# **Sustainable Design & Practice Delivering Profitability**



## Eco-Design Principles – Individual Exercise

1. Read through Booklet: 7 Theme summaries. **10 mins**
2. Take a walk around the venue & make notes for the 2 questions for each Theme. **40 mins**
3. Return to the room & hand in Booklet.  
*Please provide your name – the booklets will be returned to you.* **10 mins**

**Q1: What building features can you see that might contribute to improving the building's 'Eco' performance?**

**Q2: If this site was to be built again, what additional features could be considered to improve the building's 'Eco' performance?**



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## Eco-Design Principles – Group Exercise

1. Choose your Theme (& table) – Group Labels **5 mins**
2. Introductions (name & where are you from) **15 mins**
3. Discussion about the Individual exercise, on your chosen Theme. **30 mins**
4. Group Discussion of Theme highlights  
(Facilitated, with Architectural assistance) **60 mins**
5. ... Briefing for Site Visit **10 mins**





## Facility Site Audit: Pallarenda Quarantine Station

1. Remain in Thematic Groups to determine  
*- Nominated speakers (x 3)*  
*- Nominated photographer (x 1)* *5 mins*
2. Peruse 'Introduction' & discuss & distribute checklists on bus *20 mins*
3. Site Talks & Tour – complete audit checklists for your Theme *40 mins*
4. Consider the results of the 'Audit' *'Homework'*



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# Facility Audit Review & Presentations





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# Facility Audit Conclusions & Debrief

