

## PART B7

### HES – Early career researcher

#### B7 RESEARCH RECORD RELATIVE TO OPPORTUNITIES

##### ***A statement on your most significant contributions to this research field***

Being an early career research candidate having just submitted my thesis my significant contributions to this field are only of the last 5 years. Through the research work underpinning my thesis I carried out a participatory project with a team of architects, builders, their contractors and the client and building users to design, build and operate the Reservoir Civic Centre which in 2004 won the Banksia environmental award. Through my experience and the network I built, I initiated and developed the Sustainable Building Program at RMIT. This program has now been running 3 years and result being the development of ARCs and other projects with my colleagues that have added 4 PhDs directly, 7 PhDs and 1 post doctoral student indirectly and resulted in more than 20 refereed papers and chapters being written. I believe the most significant contribution to the field that I have facilitated is a collaborative approach to the integration of sustainability within the built environment by the coordination of concurrent research projects that run independently while feeding into broader research agendas and into industry needs – what I call the Helix model of research.

##### ***All refereed publications in the past five years***

###### Chapters

- Hes, D. and M. Cummins (2005). CH2, Melbourne City Council, Australia. Environmental Brief. Eds. W. Cheshire, R. Hyde, M. Thompson and S. Watson. London, Spon Press, 241-257.
- Hes, D. (2005). Reservoir Civic Centre, Darebin City, Melbourne, Australia. Environmental Brief. Eds. W. Cheshire, R. Hyde, M. Thompson and S. Watson. London, Spon Press, 258 – 279.
- Hes, D. (2004). Facilitating Sustainable building: turning observation to practice. Protecting the Future - Global sustainability in practice at RMIT University. Eds. S. Holdsworth and T. Caswell. Melbourne, Australia, CSIRO, 137-158.

###### Papers

- Graham, P. M., G. P. L. Coutts and D. Hes (2003). What can the process of delivering 'Sustainable Buildings' teach us about construction management education? Working Together, 28th Annual AUBEA Conference Australasian Universities Building Educators Association, Geelong, Australia.
- Graham, P. M., G. P. L. Coutts and D. Hes (2003). What the process of delivering 'Sustainable Building' can teach us about Construction Management Education. Smart and Sustainable Built Environment, SASBE 2003, Brisbane, Australia.
- Hes, D. (2003). Critical information requirements to support 'green' building projects. CIB conference on Smart and Sustainable Built Environment (SASBE 2003), Brisbane, Australia, Queensland University of Technology.
- Hes, D. (2003). The Impact of a Dominant Culture on the 'Greenness' of the built environment - a response using a case study. AUBEA, Geelong, Australia.
- Hes, D. and M. Bates (2003). "Concrete and Sustainability - Supporting Environmentally Responsible Decision Making." BDP Environment Design Guide published by the Royal Australian Institute of Architects PRO31.
- Sibley, J., D. Hes and F. Martin (2003). A Triple Helix Approach: An inter-disciplinary approach to research into sustainability in outer-suburban housing estates. Methodologies in Housing Research, Stockholm.
- Hes, D. and T. Grant (2002). "Life Cycle Decision Making." The BDP Environment Design Guide published by the Royal Australian Institute of Architects.

Hes, D. (2000). Application of PAR to the study of the use of environmental information in Design. Reconciliation and Renewal - Through Collaborative Learning, Research and Action, University of Ballarat, Victoria, University of Ballarat.

### **Ten career-best publications**

1. Hes, D. (2004). Facilitating Sustainable building: turning observation to practice. Protecting the Future - Global sustainability in practice at RMIT University. Eds. S. Holdsworth and T. Caswell. Melbourne, Australia, CSIRO, 137-158.
2. Hes, D. and M. Bates (2003). Concrete and Sustainability - Supporting Environmentally Responsible Decision Making. BDP Environment Design Guide published by the Royal Australian Institute of Architects PRO31.
3. Hes, D. and M. Cummins (2005). CH2, Melbourne City Council, Australia. Environmental Brief. Eds. W. Cheshire, R. Hyde, M. Thompson and S. Watson. London, Spon Press.
4. Hes, D. (2005). Reservoir Civic Centre, Darebin City, Melbourne, Australia. Environmental Brief. Eds. W. Cheshire, R. Hyde, M. Thompson and S. Watson. London, Spon Press.
5. Hes, D. (2003). Critical information requirements to support 'green' building projects. CIB conference on Smart and Sustainable Built Environment (SASBE 2003), Brisbane, Australia, Queensland University of Technology.
6. Hes, D. (2003). The Impact of a Dominant Culture on the 'Greenness' of the built environment - a response using a case study. AUBEA, Geelong, Australia.
7. Hes, D. and T. Grant (2002). "Life Cycle Decision Making." The BDP Environment Design Guide published by the Royal Australian Institute of Architects.
8. Sibley, J., D. Hes and F. Martin (2003). A Triple Helix Approach: An inter-disciplinary approach to research into sustainability in outer-suburban housing estates. Methodologies in Housing Research, Stockholm.
9. Graham, P. M., G. P. L. Coutts and D. Hes (2003). What can the process of delivering 'Sustainable Buildings' teach us about construction management education? Working Together, 28th Annual AUBEA Conference Australasian Universities Building Educators Association, Geelong, Australia.
10. Walker-Morison, A., P. Graham and D. Hes (2003). ESD initiatives for the master plan for the Kingston Aged Care Centre development. Melbourne, Hassell Architects: 60.

### **Other evidence of impact and contributions to the field**

Other evidence of my contribution to the field is the Green Building Course, which I initiated in 2001 and is now run by a colleague. It is held in Melbourne and Sydney annually and presents the latest projects and research in the field and is seen as the one 'must' conference for anyone working in sustainable building, with attendances of over 250 people this year. Further, I have been asked to give evidence at the Inquiry into Sustainable Urban Design for New Communities in Outer Suburban Areas held in Victoria in 2003; to be part of a small team to advice the Federal government on their accommodation energy policy; and to review the Commonwealth Games Village design.

### **Any aspects of your career or opportunities for research that are relevant to assessment and that have not been detailed elsewhere in this application**

I have given several radio and newspaper interviews:

Earth Beat – ABC radio - <http://www.abc.net.au/rn/science/earth/stories/s575270.htm>

2024 Dreaming House of Dreams - ABC radio -

<http://www.abc.net.au/rn/science/ss/stories/s1179445.htm>

The Age, the Australian and the Herald Sun

Have been an invited speaker at key conferences:

RAIA 2002 – Sustainable materials

BDAV 2002 – ESD and Building Design – the future?

Sustainable Living Fair 2002 – Reservoir Civic Centre a case study

Water seminar – Reservoir Civic Centre case study - Centre for Design at RMIT 2002

Invitation to speak by NAHB in Baltimore, Washington, USA – use of Life Cycle thinking and tools April 2001

Have taught into Key industry courses and seminars:

HIA 2 day *Greensmart builders course*, August, October and November 2002.

AIQS Seminar Possible Roles for Environmental Life Cycle Assessment in Building Specification April 2002

SEAV ESD and Energy Smart Design GEMnet (Government Energy Managers Network) meeting February 2001

<http://www.seav.vic.gov.au/gov/GEMnet/download/archive/GEMnet31.pdf>

And won several awards for integrating academia, education and industry outcomes:

- 10<sup>th</sup> Annual **Business and Higher Education Roundtable** award for Outstanding Achievement in Collaboration in Education and training 16/11/2000
- 13<sup>th</sup> Annual **Business and Higher Education Roundtable** honorary mention for Outstanding Achievement in Collaboration in Education and training 25/11/2003
- **Banksia award** 2004 – Darebin City Council for Leadership in Sustainability in Buildings for the Reservoir Civic Centre