

CURRICULUM VITAE

Personal Details

Dr Blair Kuys

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Education

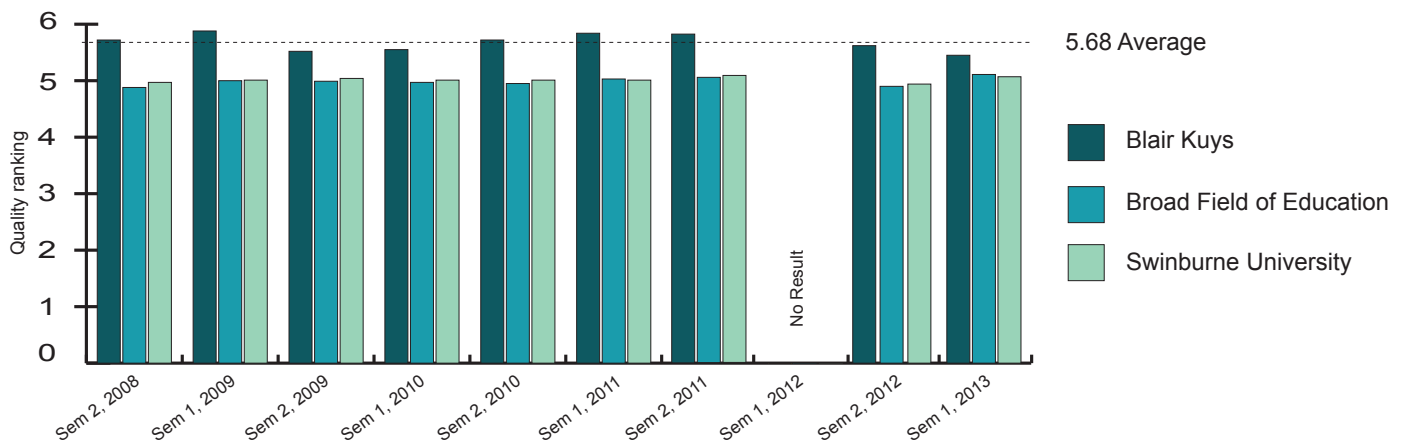
2010 Doctor of Philosophy (PhD.), Swinburne University of Technology
 2003 Bachelor of Design (Industrial Design Honours) (First class honours)
 2002 International exchange. Hong-Ik University, Seoul, South Korea.
 2002 Bachelor of Design (Industrial Design), Swinburne University of Technology
 1998 Diploma of Arts (Design), RMIT
 1997 Advanced Certificate in Applied Design. RMIT

Employment History

2014–Present Department Chair. Interior Architecture and Industrial Design
 2013 Acting Head of Academic Group. Industrial Design, Interior Design, Product Design Engineering
 2012–2013 International Coordinator for the Faculty of Design
 2012–2013 Senior Lecturer. Program Coordinator for Industrial Design and Product Design Engineering
 2008–2011 Lecturer. Swinburne University of Technology. Faculty of Design
 2004–2008 Sessional Lecturer. Swinburne University of Technology. Faculty of Design

Teaching and Learning Experience

2010–Present 4 PhD Candidates (2 Principle Coordinating Supervisor, 2 Coordinating Supervisor). 1 Completion.
 2008–2013 Student Feedback on Teaching Results (see below). 5.70/6.00 average for 5 years.



Graph 1. Student Feedback results summary for Blair Kuys mapped against the average results for the Broad Field of Higher Education in Australia and the average results for Swinburne University of Technology.

Teaching and Learning Experience continued

From 2004–2013 I have maintained excellence in all teaching activities. I have constantly been positioned in the top 10% of all university staff for outstanding teaching according to Student Feedback on Teaching surveys. Over the past ten years I have managed and delivered the highest standard across the following subjects:

Year one

Industrial Design/Product Design Engineering. Product Design Studio
Industrial Design. Ergonomic Interactions
Multidisciplinary Design Research Methods

Year two

Computer Illustration
Industrial Design. Processes Technology
Product Design Engineering. Sustainable Design

Year Three

Industrial Design. Manufacturing Technology
Industrial Design. Communication Technology
Product Design Engineering Design Studio
Product Design Engineering. Social Responsibility

Final Year

Product Design Engineering. Professional Attributes
Product Design Engineering. Innovative Methodologies
Product Design Engineering. Professional Project
Mechanical Engineering and Robotics and Mechatronics. Product Design Studio

I am a confident and engaging public speaker and have delivered lectures on the following topics at Swinburne and in Asia, Europe and South America:

- Systems Design
- Ergonomics
- Design Process
- Presentation Techniques
- Design for Manufacture
- Creativity and Innovation
- Design for Sustainability
- Design for Assembly and Costing
- Design Ethics and Social Responsibility
- PhD Process and academic writing structures

Research and Scholarship Experience

From 2004–08 I was a part of the Cooperative Research Centre (CRC) Wood Innovations in which I worked in collaboration with industry partners, university partners and government organisations to complete my PhD. In March 2012 I qualified to be a principle coordinating supervisor for PhD candidates and currently supervise 3 students as principle coordinating supervisor and have had one completion as Associate Supervisor.

My own research has been included in the CRC Wood Innovations Annual Reports as well as highly promoted throughout Swinburne University, including a cover story for the Swinburne magazine and the 2012 Annual Report. My research focus is on material science with a strong focus on research-led practice with the aim of improving the connections with industry and higher education. These three areas both encompass sustainable and socially responsible design, as well as interdisciplinary and multidisciplinary education.

My research output is of an international standard and I have published 19 refereed papers since 2009 averaging close to 4 papers per year. This shows my commitment to scholarly research while having the ability to successfully manage my time between teaching and leadership roles. My PhD titled “Science and Design: Surface Modification for Timber Window Frames” investigated the role of an Industrial Designer working in a collaborative environment with science, engineering and industry, with a design outcome that highlighted sustainable product development.

Research

Competitive Grants/Research income

\$62,990.90	June 2014 (confirmed, yet to commence). Chassis Brakes International conceptualisation of new products. Industry linked research project.
\$15,000	May 2014 (confirmed, yet to commence). Conducting, in CSIRO Highett laboratories, experiments providing scientific proof of a novel process for decorative finishing light-weight composite materials (including those containing bio-derived ingredients) which should eliminate paint waste from coating automotive components
\$24,216.07	24th November 2013 – 24th July 2014. MHG Conceptualisation of New Products. Australian Government Innovation Voucher. Category 3 Research Grant. MHG Plastic Industries (VIC) Pty. Ltd.
\$5,000	January 2014. Engage with India research funding.
\$168,381	1st April 2012 – 31st March 2013. SERS New Product Design and Commercialisation. Category 2 Research Grant. Australian Government Enterprise Connect Researchers in Business Grant linked with S.E.R.S Pty. Ltd, Burnie, Tasmania, Australia. Primary investigator: Dr Blair Kuys.
\$30,000	16th April 2012 – 16th April 2014. ACIAR project FST/2009/016 under the chief investigator Professor Peter Kanowski – ANU College of Medicine, Biology & Environment. New product applications for PNG Balsa. \$30,000 has been awarded for practice-based design research for commercial applications of Balsa. This area of research is in collaboration with Associate Professor Barbara Ozarska – The University of Melbourne.

\$305,587.97 Total research income - April 2012 – Present

Books/Theses

- 2009 **Kuys, B.** Science and design: surface modification for timber construction, Doctor of Philosophy Thesis, Faculty of Design, Swinburne University of Technology.
- 2008 Ginters, L., **Kuys B.** Technology transfer. Design in a scientific research program. CRC Wood Innovations.
- 2004 Digital Eco-Sense: Sustainability and ICT – A New Terrain for Innovation. ISBN: 0-975-67431-5.
- 2004 Lab.3000 Digital Design Biennale 2004- Imagining the Future. ISBN: 0-9756743-0-7

Refereed publications

- 2014 Kuys, B., Usma-Alvarez, C., Ranscombe, C. *Are you a designer or an engineer? We are both. An insight into Product Design Engineering through graduate reflection (Accepted)*. DRS. Umea University, Umea, Sweden. 16–19 June.
- 2014 Kuys, B., Thong, C., Kotlarewski, N., Thompson-Whiteside, S. *Research-led practice in design research used to best demonstrate design theories (Accepted)*. DRS. Umea University, Umea, Sweden. 16–19 June.
- 2014 **Kuys, B.** *The global significance of Product Design Engineering education*. BIT's 1st Annual World Congress of Designers-2014 (AWCD-2014), Dalian, China.
- 2014 Velásquez Montoya, M., **Kuys, B.** *Preparing industry leaders for global proficiencies in social innovative design*. International Journal of Design Creativity and Innovation. Taylor and Francis. ISI Journal Citation Index. (Under review).
- 2013 **Kuys, B.**, Gutowski, W.S. *An improved test method for assessing the resistance of paint coatings to separation from surface modified timber*. Materials Innovation in Surface Engineering (MISE). Adelaide, Australia.
- 2013 Gutowski, W.S., **Kuys, B.**, Li, S., Yang, W. *Minimising the UV and hydrothermal degradation of wood surface by improvement of coating-wood interphase stability*. Journal of Coatings Technology and Research.
- 2013 Gutowski, W.S., **Kuys, B.**, Li, S., Yang, W. *Enhancement of paint adhesion to timber*, Journal of Adhesion Science and Technology.
- 2013 Renda, G., **Kuys, B.** *Design for disability: Industrial design-led interventions for assistive cutlery*. Hospitality & Society Volume 3 Number 3. HOSP 3 (3) pp. 231–239.

- 2012 **Kuys, B.**, Velásquez Montoya, M., Thong, C., Glover, J. *Embedding Sustainability in Product Design Engineering curriculum. A comparison of needs on an international level.* DRS. Chulalongkorn University, Bangkok, Thailand. 1–4 July.
- 2012 Renda, G., **Kuys, B.** *Food, Disability and Design.* International Conference on Designing Food and Designing for Food. London, June 28–29.
- 2012 Thong, C., **Kuys, B.** *An empirical study of industrial design contribution to advances in timber materials science.* Advanced Material Research. Vol 415-417. pp 248-253. Trans Tech Publications, Switzerland.
- 2011 **Kuys, B.** *Enhanced adhesion from surface modified timber resulting in a sustainable industrial design outcome.* Materials Innovation in Surface Engineering (MISE). Melbourne, Australia.
- 2011 **Kuys, B.**, Thompson-Whiteside, S. *Educating students on a global scale. Study tours in design and the impact on graduates.* International Association of Societies of Design Research (IASDR). Delft, Netherlands.
- 2010 de Vere, I., **Kuys, B.**, Melles, G. *A comparative evaluation of aptitude in problem solving in engineering education.* International conference on engineering and product design education. Trondheim, Norway.
- 2010 **Kuys, B.**, Thong, C. *First impressions count: the importance of high-quality visuals in the Product Design Engineering discipline.* Connected 2010. 2nd International conference on design education. Sydney, Australia.
- 2010 **Kuys, B.**, de Vere, I. *Measuring differing approaches in design between engineering disciplines.* Connected 2010. 2nd International conference on design education. Sydney, Australia.
- 2010 Thong, C., **Kuys, B.** *Industry-based learning: developing professionalism in Industrial Design and Product Design Engineering graduates.* Connected 2010. 2nd International conference on design education. Sydney, Australia.
- 2010 Tavrou, S., **Kuys, B.** (Poster presentation) *Product Design Engineering: a unique course at Swinburne University of Technology, Melbourne, Australia.* International conference on 'Designing for Children'. Bombay, India.
- 2009 Melles, G., **Kuys, B.** *Legitimizing industrial design as an academic discipline in the context of an Australian Cooperative Centre.* Procedia Social and Behavioral Sciences, Elsevier, ISI Journal.
- 2009 **Kuys, B.**, Anderson, L., Jackson, S., Melles, G. *Reverse engineering: a formative method of research.* International Association of Societies of Design Research (IASDR). Seoul, South Korea.
- 2009 Gutowski, V., **Kuys, B.**, Anderson, L., Jackson, S. *An inter-disciplinary approach to design.* International Association of Societies of Design Research (IASDR). Seoul, South Korea.
- 2009 Melles, G., Ginter, L., **Kuys, B.** *Research through design: industrial design in the context of an Australian Cooperative Research Centre.* International Association of Societies of Design Research (IASDR). Seoul, South Korea.

Research Reports

- 2013 Kuys, B., Thompson-Whiteside, S. Education Cooperation Programme ICI ECP Joint Mobility Project. Final Report. Australian Government. International Education and Science Division – DIICCSRTE.
- 2012 Kuys, B., Ozarska, B. Contribution of product design to the Papua New Guinea balsa project. ACIAR FST/2009/016. July 2012.
- 2012 Ozarska, B., Kuys, B. Assessment of current balsa processing capabilities in East New Britain. ACIAR FST/2009/016. August 2012.
- 2012 Kuys, B. S.E.R.S. Market research for new product development. June 2012.

Non-Refereed publications

- 2009 Thong, C., **Kuys, B.** *Workshop 5. Sustainability and product design at Swinburne.* Cumulus 38°South: hemispheric shifts across learning, teaching and research. 12–14 November. Melbourne, Australia.
- 2006 **Kuys, B.** *Digital Eco-sense.* 6th Asia Pacific Roundtable for Sustainable Consumption and Production. Melbourne.
- 2005 **Kuys, B.**, Jackson, S., Anderson, L., Strachan, M. 6th UNEP Asia Pacific Round Table for Sustainable Production and Consumption. World Congress Centre, Melbourne.
- 2005 **Kuys, B.**, Jackson, S., Anderson, L., Strachan, M. *Eco-Sense at the Faculty of Design, Swinburne University of Technology.* Workshop presentation. Special One Day Event following the United Nations Environment Program 6th Asia Pacific Round Table for Sustainable Production and Consumption, Melbourne, October 10–12.
- 2004 **Kuys, B.** *A new Swinburne NID PhD student introduces his research areas and his design portfolio.* Presentation to Carter Holt Harvey, Brisbane.

Exhibitions

- 2011–12 German/Switzerland Study Tour Returning Student Exhibition. Highlighting the project outcomes in collaboration with Kunsthochschule Berlin-Weißensee.
- 2006–11 Product Design Engineering Graduate Exhibition. Coordination and management.
- 2004 Digital Eco-Sense: Sustainability and ICT – a new Terrain for Innovation. Melbourne Museum.
- 2004 Digital Eco-Sense: Sustainability and ICT – a new Terrain for Innovation. The design work was also featured in an exhibition of design held in the offices of Education Minister Lynne Kosky in the Parliament of Victoria in Oct 2004.

Academic Reviewer

- 2009 Cumulus 38°South: hemispheric shifts across learning, teaching and research. 12–14 November. Melbourne, Australia.

PhD Supervision

- 2010–2013 PhD Candidate completion August 2012 (Associate Supervisor)
- 2013–Present 3 x PhD Candidates – Principle Coordinating Supervisor.

Professional Awards

- 2012 Vice Chancellor's Research (Early Career) Award.
- 2011 Vice Chancellor's Award for Internationalisation (with Ian de Vere, Christine Thong, Kate Bissett-Johnson and Soullis Tavrou).
- 2011 The Dean's Visiting Researcher Award. Used to invite Marcela Velásquez Montoya for a four-week research collaboration at Swinburne. Head of Program. Product Design Engineering. EAFIT University – Medellín, Colombia.
- 2010 Vice Chancellor's Award for Sustainability (with Kate Bissett-Johnson, Ian de Vere, Mark Strachan, Christine Thong and Denis Smitka).
- 2009 Vice Chancellor's Teaching Award (Higher Education).
- 2008 Vice Chancellor's Award for Community Engagement (with Kate Bissett-Johnson, Ian de Vere, Peter Mulqueen).
- 2004 CRC PhD candidature scholarship.
- 2004 DIA Award for the highest achieving Industrial Design Honours student.
- 2003 Winner of the Fashion-Johnson Furniture Design Award for the New Age Veneers ottoman.
- 2003 Finalist for the Myer Modern Design Awards for the work title "HomeWork".
- 2002 International exchange scholarship. Hong-Ik University, Seoul, South Korea.

Engagement and Leadership Activities

- 2012–Present Acting Head of Academic Group for Product Design Engineering, Industrial Design and Interior Design.
- 2012–Present Program Coordinator for Industrial Design and Product Design Engineering.
- 2011–Present International Coordinator for the Faculty of Design. Quality Assurance officer for Swinburne Sarawak, Malaysia. Project Manager for ICI-ECP Student Mobility Program.
- 2011 Invited guest lecturer to Korea University in Seoul, South Korea. Industrial Design and Product Design Engineering lecture series.
- 2011 Invited guest lecturer to EAFIT University in Medellín, Colombia. Product Design Engineering workshop and lecture series.
- 2010 Leading 21st Century Schools: Engage with Asia Forum. Invited panel member to discuss the importance of linking Asia with Australian education. Presentation given to 86 secondary school principles.
- 2010–Present Coordination of the German/Switzerland Study Tour for Product Design Engineering and Industrial Design students. This involved an international collaboration project with Kunsthochschule Berlin-Weißensee in Germany and various cultural tours of both countries.
- 2010 Presentation to Xavier Collage to promote Swinburne design.
- 2010–2011 Dada Academy/Dung Suh Agency Workshop. Seoul, South Korea. Four-hour workshop teaching an industrial design based project to Korean students interested in studying in Australia.

- 2010 QS World Design Exhibition. Seoul, South Korea.
- 2010 QS World Design Exhibition. Shanghai, China.
- 2009–Present Invited guest lecturer to Melbourne University. Masters of Forest and Ecosystem Science. Lecture and workshop series given to postgraduate students for their subject, “Timber in the built environment”.
- 2009 Invited guest lecturer to KAIST in Daejeon, South Korea. Industrial Design lecture.
- 2009 Austrade exchange exhibition. Seoul, South Korea.
- 2009 Design Laboratory 2009 (Co-Director).
- 2009 Visit to four Korean student exchange agents. Presentations given to promote Swinburne University of Technology, Faculty of Design.

Training

- 2011 Short stay study tours workshop. International Education Association of Australia. RMIT.
- 2010 Academic writing workshop. Roweena Murray. Swinburne University, Melbourne.
- 2007 CNC Machinery short course. ISS Institute, Homes Glen TAFE. Melbourne.
- 2005 Australian Timber Design Workshop. Launceston University, Tasmania, Australia.
- 2004 Timber Engineering. HSB Biel University of Applied Science for Architecture, Civil and Wood Engineering. Biel, Switzerland.
- 2004 Wood Science. Creswick, Victoria, Australia.

Media Statements/interviews

- 2011 Swinburne University of Technology Annual Report 2011. Transformational culture: case study. Page 48.
- 2009 Swinburne (research publication). Issue 5, March 2009. Wood in the Frame. Design opens a new window for smart use of wood. Cover Story. Page 18–19.

Consulting Activities

- 2012 Increasing Downstream Value Adding in PNG’s Forest and Wood Products Industry – Project report for The University of Melbourne for Project Number FST/206/120.
- 2010 Forest Wood Products Australia. Design and manufacture of 1,500 promotional note pads. 100 per cent carbon neutral. Designer and project manager.
- 2010 Forest Wood Products Australia. Design and manufacture of a promotional structural timber kit. This included the promotion of 15 different timber elements used in building construction. Designer and project manager.
- 2008–2010 Graphic Design for over 10 different publications including annual reports.
- 2009 Publication for World Vision Australia.
- 2007 CRC Wood Innovations. Design and print production of 1,000 Financial reports. Designer and print manager.

Professional Organisations

- 2012 Professional Member of the Design Institute of Australia (DIA).
- 2012 Panel Member for the Industrial Design Industry Advisory Committee. Swinburne University of Technology.
- 2012 Panel Member of the Product Design Engineering Industry Advisory Committee. Swinburne University of Technology.

Referees

Upon Request

“I am passionate and dedicated to multidisciplinary design education and research. The ability to influence change and educate future leaders of industry will always maintain my desire for excellence in this field”.