RMIT School of Property, Construction and Project Management Research Grants 2004-2008

The School of Property, Construction & Project Management (PCPM) is currently undertaking leading-edge research on Building Information Modelling. Our work addresses real-world issues within an international and Australian context. A list of some of our current and recent industry and government sponsorships is as follows:

**Process Connectors I**
*Supporting Information Transactions in Residential Design and Construction Processes* sponsored by the National Science Foundation – PATH Program, September 2003 - September 2006, Co-PI Ron Wakefield (RMIT) with William O’Brien (University of Florida). [$199,698 (USD) RMIT $80,158 (USD)]

**BIM Planning**
*Construction Planning Workbench* sponsored by the Cooperative Research Centre - Construction Innovation, August 2003 - August 2004, Co-PI's Guillermo Aranda-Mena (RMIT) with Robin Drogemuller and Gerry Trinidad (CSIRO), Willy Sher (University of Newcastle) and David Marchant (Woods Bagot Architects). [$215,800 (AUD)]

**eBusiness Adoption**
*Model development to accelerate the uptake of eBusiness in the Australian construction industry.* Project sponsored by the Cooperative Research Centre - Construction Innovation. Project funded by the Australian Construction Industry Training Corporation (ACITC) and Queensland Department of Main Roads and QD Public Works. [$200,000 (AUD), RMIT $90,000 (AUD)]

**Business Drivers for BIM**
*Business Drivers for BIM* sponsored by the Cooperative Research Centre - Construction Innovation, May 2005 - July 2007, Co-PI's Guillermo Aranda-Mena, Ron Wakefield, Agustin Chevez and John Crawford (RMIT) with John Fraser (QUT), Davina Jackson (UNSW) and Thomas Froese (CSIRO). [$153,346 (AUD) RMIT $77,173 (AUD)]

**BIM Estimating**
*Estimating for Civil Structures* sponsored by the Cooperative Research Centre - Construction Innovation, November 2006 – April 2007, Co-PI's Guillermo Aranda-Mena (RMIT) with Robin Drogemuller, Kwok-Keung Yum, Nigel Goodman and Thomas Froese (CSIRO), Willy Sher (University of Newcastle) and Gerry Shutt (John Holland Group). [$20,000 (AUD) RMIT $5,000 (AUD)]

**Process Connectors II**
*Enabling Rapid and Flexible Interconnection of Distributed Processes* sponsored by the National Science Foundation – ITR Program, October 2003 – October 2006, Co-PI Ron Wakefield (RMIT) with William O’Brien and Joachim Hammer (University of Florida). [$449,000 (USD) RMIT $64,588 (USD)]

**Evolution of Workplace Architecture**
*PhD Scholarship* by the Cooperative Research Centre - Construction Innovation. *Evolutionary Changes in Workplace Architecture* – Agustin Chevez (PhD candidate), Guillermo Aranda-Mena and Peter Edwards (supervisors) with James Calder, Director of Workplace, Woods Bagot. (RMIT $90,000 (AUD))

**Design for Prefabrication**
*Prefabricated Housing via Advances in Systems Technologies* (PHAST), AusIndustry - Industry Cooperative Innovation Program (ICIP), Joint proposal with Cement, Concrete and Aggregates Australia (CCAA), Brian Hauser (CCAA), Ron Wakefield, Mark Vines and Nick Blismas (RMIT). [$153,346 (AUD) RMIT $77,173 (AUD)]
Dr. Guillermo Aranda-Mena
is currently a Lecturer in Property, Construction and Project Management at RMIT University, Australia. He holds a PhD in Construction Management and Engineering from The University of Reading and a Masters of Science in European Construction Engineering from Loughborough University of Technology, both in the United Kingdom.

Since moving to Australia in 2003 Guillermo has been a principal investigator to the Cooperative Research Centre for Construction Innovation research projects in Digital Architecture ‘Construction Planning Workbench’, ‘eBusiness Adoption in Construction’ and ‘Business Drivers for BIM’ in collaboration with the CSIRO, Ove Arup, Rider Hunt, John Holland Group, Building Commission of Victoria and Woods Bagot.

Agustin Chevez
Since completing his Master in Project Management at RMIT, Agustin has been involved in the Construction and Architecture Industry in Melbourne. His work combines academic research with industry practice. He is a researcher for the project ‘Business Drivers for BIM’ at RMIT in collaboration with QUT University as well as implementing BIM at Balcombe Griffths Architects. Agustin is currently undertaking Doctoral studies as a Cooperative Research for Construction Innovation scholar within the School of Property, Construction and Project Management at RMIT and co-supervised by Director of Workplace at Woods Bagot on the topic of evolution of workplace architecture.

John Crawford
is a former CSIRO Scientist now consulting as a Senior Research Fellow to the School of Property, Construction & Project Management on a range of topics including various CRC for Construction Innovation research projects. Until 2004, John was a Principal Scientist with the Integrated Design and Construction team at CSIRO Highett where he focussed on integrated Building Information Modelling and virtual design; Computer-Supported Collaborative Working; computer-aided architecture; planning & global design; as well as urban and facilities planning and Geographic Information Systems.

www.rmit.edu.au/pcpm/research

BIM: [bil-ding] [in-fer-mey-shuhn] [mod-ling]