## 2006 Successful Emerging Researcher Projects

### Design & Social Context

<table>
<thead>
<tr>
<th>Project Title</th>
<th>School</th>
<th>Chief Investigator</th>
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<tbody>
<tr>
<td>Biophysical degradation in the Mt. Everest region of Nepal: a study of Sherpa and Australian tourist perceptions</td>
<td>Global Studies/Social Science &amp; Planning - Environment &amp; Planning</td>
<td>Beau Beza</td>
</tr>
<tr>
<td>Spatial and ecological explorations towards sustainable urban planning: developing a database of industrial landscaping in Australia</td>
<td>Architecture &amp; Design</td>
<td>Archana Sharma Bhatt</td>
</tr>
<tr>
<td>Understanding information, education and communication materials for behaviour change among ethnic minority drug injectors in north western Vietnam</td>
<td>Global Studies/Social Science &amp; Planning (GSSP)</td>
<td>Matthew Clarke</td>
</tr>
<tr>
<td>More conversations with queer secondary school students: an awareness raising resource for whole school communities</td>
<td>Education</td>
<td>Michael Crowhurst</td>
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<tr>
<td>Laboratory for animation and interactivity research (L.A.I.R.)</td>
<td>Creative Media</td>
<td>Lisa Dethridge</td>
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<tr>
<td>Physical education in the South Pacific Islands nations: A qualitative overview of curriculum development, teaching and learning</td>
<td>Education</td>
<td>Phil Doecke</td>
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<tr>
<td>Vital signs: Architecture and creative philosophy</td>
<td>Architecture &amp; Design</td>
<td>Helene Frichot</td>
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<tr>
<td>The implications of the semantic web for knowledge management</td>
<td>Globalism Institute/ GSSP</td>
<td>Angus (Gus) Gollings</td>
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<tr>
<td>Re-examining school-community learning partnerships for environmental sustainability</td>
<td>Global Studies, Social Science &amp; Planning</td>
<td>Jose Guevara</td>
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<tr>
<td>Case studies on design and community engagement programs in struggling communities: Australia, Great Britain and USA</td>
<td>Architecture &amp; Design</td>
<td>Fiona Harrisson</td>
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<tr>
<td>Enabling apparel - integrated electronic garments for augmented emotional connection</td>
<td>Architecture &amp; Design</td>
<td>Leah Heiss</td>
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<tr>
<td>The art of being mobile: Genered customisation of mobile phones in the Asia-Pacific</td>
<td>Creative Media</td>
<td>Larissa Hjorth</td>
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<tr>
<td>Gan vs. Wang: The great debate between China's two leading journalism professors on &quot;marxist journalism&quot;</td>
<td>Applied Communication</td>
<td>Chengju Huang</td>
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<tr>
<td>Waste and value in Melbourne and Quezon City</td>
<td>Global Studies/Social Science &amp; Planning</td>
<td>Ruth Lane</td>
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<tr>
<td>Fighting organisational amnesia: strategies for improving knowledge retention and learning in Australian construction organisations</td>
<td>Property, Construction, Project Mgt</td>
<td>Tayyab Maqsood</td>
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<tr>
<td>Australian design working with China: case studies of SME industrial design collaboration with Chinese manufacturers</td>
<td>Architecture &amp; Design</td>
<td>Scott Mayson</td>
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<tr>
<td>Innovative assessment modes and approaches in DSC</td>
<td>Portfolio Office</td>
<td>Helen McLean</td>
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<tr>
<td>Tagged spaces Phase 1</td>
<td>Applied Communication</td>
<td>Jenny Weight</td>
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<tr>
<td>Cultural heritage and new media: redefining contemporary practice in Australian museums</td>
<td>Creative Media</td>
<td>Shaun Wilson</td>
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## Science, Engineering & Technology

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<th>Project Title</th>
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<th>Chief Investigator</th>
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<tbody>
<tr>
<td>Study of aerodynamic properties of a series of sports balls under spinning and non-spinning conditions using experimental and computational methods</td>
<td>Aerospace, Mechanical &amp; Manufacturing Engineering</td>
<td>Firoz Alam</td>
</tr>
<tr>
<td>Geometric modeling for CFD prediction of particle deposition in human airways</td>
<td>Aerospace, Mechanical &amp; Manufacturing Engineering</td>
<td>Songlin Ding</td>
</tr>
<tr>
<td>The structural engineering of metal oxide nanostructured thin films for gas sensing applications</td>
<td>Electrical &amp; Computer Engineering</td>
<td>Kourosh Kalantar-zadeh</td>
</tr>
<tr>
<td>Efficacy and safety of Chinese herbal medicine in the management of simple obesity: A randomised controlled trial</td>
<td>Health Sciences</td>
<td>George Lenon</td>
</tr>
<tr>
<td>Exact dynamic grid systems for numerical aerodynamics simulations of flaperon-configured wings</td>
<td>Mathematical &amp; Geospatial Sciences</td>
<td>Eddie Ly</td>
</tr>
<tr>
<td>Development of a model to predict the growth and spread of Caulerpa taxifolia in Australian waters</td>
<td>Mathematical &amp; Geospatial Sciences</td>
<td>Lynne McArthur</td>
</tr>
<tr>
<td>Modelling of MMLC for medical physics</td>
<td>Applied Sciences</td>
<td>Alex Merchant</td>
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<tr>
<td>Airway cuff management practices: a randomized, controlled trial and survey of current practice</td>
<td>Health Sciences</td>
<td>Louise Rose</td>
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<tr>
<td>Investigation of millimetre-wave integrated antennas for fibre-wireless systems</td>
<td>Electrical &amp; Computer Engineering</td>
<td>Wayne Rowe</td>
</tr>
<tr>
<td>Chronic pain relief: investigation of the active parameters in micro-current waveforms used for pain relief. (applied research)</td>
<td>Electrical &amp; Computer Engineering</td>
<td>Heiko Rudolph</td>
</tr>
<tr>
<td>Query performance prediction for effective online searching</td>
<td>Computer Science &amp; IT</td>
<td>Falk Scholer</td>
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<td>Real time texture analysis on video</td>
<td>Computer Science &amp; IT</td>
<td>Andy Song</td>
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<tr>
<td>Characterisation of plastic organic scintillators for radiation measurement</td>
<td>Applied Sciences</td>
<td>Jamie Trapp</td>
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<tr>
<td>Generalized reinforcement learning for characters in 3D virtual environments</td>
<td>Computer Science &amp; IT</td>
<td>Fabio Zambetta</td>
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<tr>
<td>A data mining approach to predicting protein disorder</td>
<td>Computer Science &amp; IT</td>
<td>Xiuzhen (Jenny) Zhang</td>
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## Business

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<tr>
<td>E-business assimilation and its effects on the growth and export performance of Australian horticulture firms</td>
<td>Business Information Technology</td>
<td>Alemayahu Molla, Konrad Peszynski</td>
</tr>
<tr>
<td>Manufacturing Australia's future - striving for global competencies and capabilities</td>
<td>Management</td>
<td>Peter O'Neill</td>
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