



## Built Environment Research News

Never Stand Still

Built Environment

Research

**Issue 31 – December 2016**

### From the Associate Dean Research

Approaching the end of 2016 we can look back on what has been another successful year for Built Environment in research terms across a whole range of activities.

We successfully secured over \$3 million in competitive external grants, including two ARC LIEF (infrastructure) grants (Hal Pawson, Bill Randolph and Chris Pettit), a Linkage with QUT (Martin Loosemore and Sid Newton), and a Discovery Project with the University of Melbourne (Rob Freestone). Two sizeable CRC for Low Carbon Living grants were awarded (Chris Pettit and Lan Ding) along with five other grants over \$100,000 from various funders including AHURI (Chris Martin, Bill Randolph), CRC for Spatial Information (Chris Pettit), Department of Health (Catherine Bridge), and Monash University/ANDS NCRIS (Scott Lieske).

At the same time we were able to distribute nearly \$700,000 to staff members and Higher Degree Research (HDR) students through various internal support mechanisms – our small grant schemes, supporting various strategic projects, symposia, exhibitions and book publications. The five research clusters all enjoyed a productive year including high profile conferences on smart cities, sustainable environments and people & place.

The City Futures Research Centre led by Bill Randolph and now in its eleventh year of operation continues to be a crucial research hub with impact through grants, publications, invited addresses, blogs and media hits.

2016 has proven a bumper year for books and substantial monographs covering a spectrum of topics including sustainability (Harry Margalit), disasters and resilience (David Sanderson), Martin Place (Judith O'Callaghan, Paul Hogben and Robert Freestone), Calcutta (Jon Lang), Venice (Katrina Simon and Paola Favaro), children and the city (Linda Corkery and Kate Bishop), environmental law (Peter Williams), public space (Jon Lang and Nancy Marshall), and placelessness (Edgar Liu and Robert Freestone).

Several prizes for research were awarded. Hank Haeusler and Philip Graus were joint winners of the inaugural UDIA City Life competition, Viv Milligan won the Nazha Saad Women's High Achievement in Housing Award at the 2016 NSW Affordable Housing Conference, and City Futures won the 2016 Award for Planning Excellence by the Planning Institute of Australia for Cutting Edge Research and Teaching Category) for its project 'Renewing the Compact City'.

Our vibrant research culture is captured by the number of topical seminars held – 20 lunchtime events mostly organised by City Futures on behalf of the faculty and more than twice the number in 2015 – with 15 international speakers. These were complemented by various faculty workshops on research processes, evaluation and management.

HDR student enrolments were strong - 13 enrolments of which 46% were international, and there were also 10 completions (9 PhD, 1 MPhil). The student cohort remains very active organising regular forums and social events. The Faculty scored extremely well in the Graduate Research School Exit Survey Results recording 96% satisfaction with the support provided by the Faculty – several percentage points above the university average.

The performance and underlying commitment have been outstanding and have paid off; all augur well for an even better 2017.

Rob Freestone  
Associate Dean Research

## Researcher Highlights

### A CROSS-FACULTY RESEARCH CONVERSATION WITH THE FACULTY OF ARTS & SOCIAL SCIENCES

Convened by the ADRs for Built Environment (Rob Freestone) and Arts & Social Sciences (David Bright), academics from both faculties came together on Monday 21 November to discuss their research with a view to identifying common ground and potential for collaborative work. The speakers are indicated in the table below:

Christian Tietz & Mat Kearnes	BE, A&SS	Urban amenity and co-design
Bruce Bradbury	A&SS	Spatial patterns of income inequality
Ainslie Murray	BE	Everyday life and the intangible aspects of architecture
Claudia Tazreiter	A&SS	Linking to the grand challenge of refugees and migration
Laura Crommelin	BE	Urban impact of disruptive technologies – Airbnb
Kal Gulson	A&SS	Data infrastructures, space and the future of (urban) policy
Hal Pawson	BE	The Australian homelessness monitor
Brigid Costello	A&SS	Rhythm, play and interaction design
David Sanderson	BE	Disasters, resilience and social agency
Theo van Leeuwen	A&SS	Social semiotic approaches to communicative texts
Kate Bishop	BE	A proposed centre for children, youth & environment
Simon Lumsden	A&SS	Habituation, autonomy and public space
Paul Hogben	BE	Designing Sydney's waterfront
Karen Fisher	A&SS	Proposed disability studies institute

Presentations were brief and to the point, freeing up time at the end for a general discussion. There were many common themes including the public domain, public policy, inequality, children, home, and social displacement. There was an almost seamless integration across the presentations which belied any particular faculty paradigm. To carry this initiative further into 2017, the intention is to make small grant funding available from both faculties for joint projects with prospects for innovative, sustainable collaboration and significant external funding. We are also investigating the opportunity for similar joint grants with the Faculty of Art & Design.



### APRU SUSTAINABLE CITIES AND LANDSCAPES RESEARCH HUB

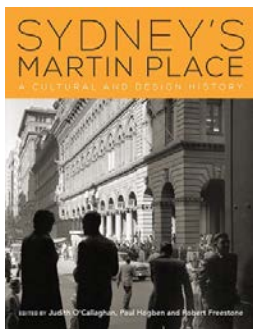
The faculty is exploring a prospectively exciting association with a new international network concerned with sustainable cities and landscapes (SCL) being convened with the Association of Pacific Rim Universities (APRU). Associate Professor Linda Corkery recently attended the initial meeting of the steering committee for the APRU (SCL) Research Hub (<http://apru.org/partnering-on-solutions/sustainable-cities-and-landscapes>) held in Portland, Oregon, with representatives from seven other universities: Oregon, Washington and UCLA (USA), Hong Kong and Tsinghua (China),

Taiwan and ANU. The research hub has been instigated by from Landscape Architecture at the University of Oregon, but the hub is aiming for cross- and interdisciplinary engagement in its activities, as well as engaging with government officials, NGOs and, potentially, practitioners.

Linda Corkery reports that the intention of the group is to convene a series of annual conferences, beginning next year at the University of Oregon. Each conference will be hosted by a member institution(s) of the APRU Hub and the call for papers will be broadcast throughout the network. While the details and logistics for these events are still coming into focus, the suggestion is that a 3-day conference theme would address a main, high level global issue; followed by an elaboration on that theme specific to the local issues of the host city, which could also include student design/research competition, media event, publication(s), etc; and include related discussions/training sessions on technical issues that could attract elected officials, government officers, practitioners. Ideally, coming out of the conferences would be policy- and/or project-related actions that had on-going impact and momentum. There are teaching/learning initiatives associated with this as well.

As these ideas develop, it is likely that expressions of interest will be invited from colleagues within the faculty and across the university to become part of a local steering committee. UNSW has been asked to consider hosting the annual conference in 2019. For further information please contact Linda Corkery ([l.corkery@unsw.edu.au](mailto:l.corkery@unsw.edu.au)).

### BOOK LAUNCH: SYDNEY'S MARTIN PLACE

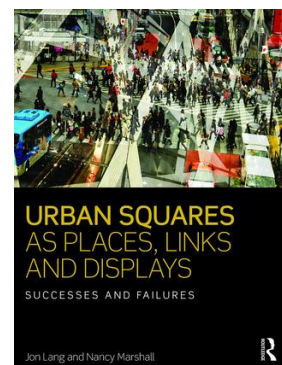


The Urban Typologies Research Cluster's new book *Sydney's Martin Place: A Cultural and Design History* by the leading publisher Allen & Unwin was launched on Monday 21 November by the Dean, Professor Helen Lochhead, and Michael Silman, Executive Director and Head of Corporate Real Estate and Sourcing for the Macquarie Group. The launch was held at 50 Martin Place, the global headquarters of the Macquarie Group where guests could take in stunning views of Martin Place and the city from the terrace on level 10 of the building. Generously supported by Macquarie Group Limited, the Gwynvill Group and Pembroke Real Estate Australia, the book contains 14 chapters, each of which documents an aspect of the architectural and cultural history of Martin Place. More information can be found at

<http://newsroom.unsw.edu.au/news/art-architecture-design/book-explores-history-sydneys-valley-sandstone>. The cluster has now embarked on its next research and publication project which is devoted to a study of Sydney's waterfront development.

### NEW BOOK ON URBAN SQUARES

Emeritus Professor Jon Lang (former Head of Architecture, Associate Dean Research and teaching until very recently into the Master of Urban Development and Design degree) and Dr Nancy Marshall (Senior Lecturer in Planning) have co-authored a new book just published internationally by Routledge. *Urban Squares as Places, Links and Displays: Successes and Failures* discusses how people experience squares and the nature of the people who use them. It presents a 'typology of squares' based on the dimensions of ownership, the square's instrumental functions, and a series of basic physical attributes including size, degree of enclosure, configuration and organization as well as their aesthetic attributes. Twenty case studies illustrate what works and what does not work in different cities around the world. The book discusses the qualities of lively squares and quieter, more restorative places as well as what contributes to making urban squares less desirable as destinations for the general public. It closes with the policy implications, stressing the importance and difficulties of designing good public places. Along with a strong theoretical framework *Urban Squares* offers how-to guidance targeting architects, planners and landscape architects working on the design and upgrade of squares.



## PLANNING INSTITUTE OF AUSTRALIA (PIA) AWARDS

Congratulation to City Futures Research Centre who have been awarded the 2016 PIA NSW Award for Planning Excellence. The project, '[Renewing the Compact City: Economically viable and socially sustainable approaches to urban development in a complex multi-stakeholder environment](#)', received the Award under category 'Cutting Edge Research and Teaching'.



Congratulations to Professor Robert Freestone and Dr Edgar Liu who received a commendation under the same category for their edited book 'Place and Placelessness Revisited' featuring contributions from members of the faculty's People & Place Research Cluster.

## SYMPOSIUM ON DESIGN EXCELLENCE



On Friday 4 November, the faculty co-hosted a half-day symposium with JBA and the Government Architects Office on 'Design Excellence, Competitiveness and Global Sydney'. This successful event attracted 50 invited participants and spun off a current ARC Discovery Project (DP150104054) entitled "Designing Global Sydney: The negotiation of public and private interests". The Chief Investigators are Dr Gethin Davison, Professor Robert Freestone and Associate Professor Richard Hu (University of Canberra). The morning was structured into three sessions. The first comprised the official opening by Government Architect and UNSW Adjunct Professor Peter Poulet with an address by international guest speaker Professor John Punter (Cardiff University). Rob Freestone also conveyed some of the results from the research project which has focused on a decade and a half of design competitions in the Sydney CBD. Two panels followed. The first, chaired by Julie Bindon (JBA), saw representatives of different government bodies discussing the ways in which they are

pursuing design excellence in Sydney. The second, chaired by Dean Helen Lochhead, explored the views and experiences of diverse stakeholders. Among the speakers on the day were leading Sydney built environment professionals including Graham Jahn, Jan McCredie, Chris Johnson, Shaun Carter, and former Dean Alec Tzannes. To coincide with the symposium, Peter Poulet announced a new design competition for medium density housing sponsored by the state government. The proceedings were recorded and will soon be linked to the project website:

<http://www.be.unsw.edu.au/research-initiatives/designing-global-sydney-negotiation-public-and-private-interests/about>.

## SBE16 SYDNEY CONFERENCE

On 17-18 November 2016, UNSW Built Environment (led by the High Performance Architecture Research Cluster) and the CRC for Low Carbon Living jointly held the SBE16: International High-Performance Built Environments Conference at the Australian National Maritime Museum, with support from UrbanGrowth NSW. The conference was a great success, with approximately 360 abstracts received, 250 registered delegates, and 180 high quality papers which will be published in Elsevier's Procedia Engineering Journal.

Co-chaired by Dr Lan Ding and Associate Professor Francesco Fiorito, the SBE16 Sydney Conference was officially opened by Adjunct Professor Lucy Turnbull AO, and featured Keynote Speeches delivered by Professor Helen Lochhead, Scientia Professor Deo Prasad AO, Anita Lawrence Chair Professor Mat Santamouris, Professor Peter Newton, Mr Nils Larsson, Professor Dennis Else and Mr Man-Kit Leung.



The following awards were presented at the Closing Ceremony of the Conference:

- **Best Paper Award**  
Melissa James and Michael Ambrose - "Retrofit or behaviour change? Which has the greater impact on energy consumption in low income households?"
- **Best Poster Award**  
Bin Huang, Ke Xing and Stephen Pullen - "Precinct Life-Cycle Energy and Carbon Emission Assessment: Modelling Challenges and Implementations"
- **Best Student Paper Award**  
Ehsan Sharifi (PhD candidate), Alpana Sivam and John Boland - "Spatial and Activity Preferences during Heat Stress Conditions in Adelaide: Towards Increased Adaptation Capacity of the Built Environment"



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## New Grant Highlights

### 2016 AHURI funding round outcomes

In the 2016 funding round outcomes for AHURI (Australian Housing and Urban Research Institute) released in late November, the City Futures Research Centre (CFRC) and UNSW did very well. The CFRC will lead, or play a major role in, three Inquiry Programs to be funded in 2017 and 2018:

- Housing and Digital Disruption – to be led by Chris Pettit, with the involvement of Laura Crommelin, Laurence Troy and Chris Martin, and collaboration with Swinburne University
- Housing and Family Welfare – to be led by Kylie Valentine of SPRC (FASS), but with a major CFRC contribution from Chris Martin, and collaboration with University of Tasmania
- Social Housing as Infrastructure – to be led by Julie Lawson (RMIT), with inputs from Ryan van den Nouwelant, Hal Pawson, and Duncan MacLennan.

Professor Hal Pawson reports that this success will make UNSW the most successful AHURI centre in this year's funding round by some margin. The funding coming to UNSW will probably be around a

third of the total allocated across the Network. The total resulting UNSW income should be more than \$650k (around \$440k to CFRC).

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## Meet the Researchers – Mohammad Mojtahedi



Dr Mohammad Mojtahedi is a lecturer in construction management and the coordinator of the Master of Construction Project Management program. He first joined BE in 2014 as a research assistant and sessional academic before becoming a full-time academic in February 2016.

Mohammad obtained a Bachelor and Master of Industrial Engineering from Azad Tehran University and a PhD from School of Civil Engineering at the University of Sydney. His doctoral studies were in the field of disaster risk management in the built environment. His PhD research received Research Excellence Awards from Engineers Australia in 2012 and 2013. Before joining UNSW, he also worked as a PMO analyst in the Vice Principal Operations Office at the University of Sydney and a project planning engineer in large-scale construction projects in the oil, gas and mining industries.

Currently, he has focused on quantitative risk analysis applied to disaster resilience and infrastructure planning. His specific research objective is to identify and understand the factors that determine disaster risk reduction measures, focusing on resilience in buildings and infrastructure aligned with the Sendai Framework for Disaster Risk Reduction 2015–2030.

Mohammad has a strong record of research in the area of quantitative risk analysis, construction management and disaster risk management in the built environment, with over 30 publications. In May 2016, he was certified as a Project Management Professional (PMP). This is an internationally recognised professional designation offered by the Project Management Institute (PMI).

Since joining BE, Mohammad has also received three competitive faculty research grants for Scholarship of Learning and Teaching (SoLT), Course Design, and an Early Career Researcher (ECR) project on measuring the Resilience of Local Councils' Buildings and Infrastructure to Flood Disasters.

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## BE Research in the News

**City Futures:** *Unaffordable Housing Crisis.* St George & Sutherland Shire Leader, 30 November 2016.

**Philip Oldfield:** *How high can we go? Melbourne's future skyscraper forecast.* The Age, 29 November 2016. [View online](#)

**Edgar Liu & Hazel Easthope:** *What to do when your kids won't leave home.* WA Today, 28 November 2016. [View online](#)

**Edgar Liu:** *More young adults stay at home for longer.* ABC News Evenings, 28 November 2016.

**Edgar Liu:** *Multi generational living arrangements.* Radio National, The World Today, 28 November 2016. [Listen online](#)

**City Futures:** *Off-the-plan apartments: the many problems with buying before property is built.* Sydney Morning Herald, 27 November 2016. [View online](#)

**City Futures:** *Off-the-plan apartments: the many problems with buying before property is built.* Sydney Morning Herald, 27 November 2016. [View online](#)

**Bill Randolph:** *Negative gearing.* ABC NewsRadio, Drive, 25 November 2016. [Listen online](#)

**Lan Ding:** *Homes can help in study.* Shoalhaven & Nowra News Chronicle, 25 November 2016.

**City Futures:** *Rental affordability index: supply not meeting demand from low-income tenants.* Domain, 23 November 2016. [View online](#)

**Rina Bernabei & Steve Ward:** *A new generation of designing women emerges from industrial design courses.* Augusta-Margaret River Mail, 23 November 2016. [View online](#)

**Bill Randolph:** *Plan aims to create jobs and homes.* Canterbury-Bankstown Express, 22 November 2016. [View online](#)

**Rina Bernabei & Steve Ward:** *A new generation of designing women emerges from industrial design courses.* The Canberra Times, 21 November 2016. [View online](#)

**Hal Pawson:** *Sydney is struggling with soaring house prices...* Radio National, The World Today, 21 November 2016.

**Deo Prasad:** *Josh Byrne to lead national zero energy homes project.* Architecture and Design, 17 November 2016. [View online](#)

**City Futures:** *Flat Broke.* Choice, National, 16 November 2016.

**Deo Prasad:** *Josh Byrne to lead national zero energy homes project.* The Fifth Estate, 15 November 2016. [View online](#)

**City Futures:** *Modernised strata laws allow apartment owners to redevelop their buildings.* Your Mortgage, 14 November 2016. [View online](#)

**City Futures:** *Change to NSW strata laws to give apartment owners power to turn buildings into gold mines.* Domain, 12 November 2016. [View online](#)

**Phillip Oldfield:** *How can Australia build great skyscrapers?* Sourceable, 8 November 2016. [View online](#)

**Chris Martin:** *Affordable housing.* ABC Radio, Big Ideas, 7 November 2016. [Listen online](#)

**Bill Randolph:** *City planning professor: Don't make Sydenham to Bankstown urban renewal corridor just for the rich.* Daily Telegraph, the Express, 31 October 2016. [View online](#)

**David Sanderson:** *Judith Neilson on art and architecture, love and life.* Australian Financial Review, 28 October 2016.

Have you have had your research mentioned in the media recently?  
Please send details to [Frances Pranoto](#) for inclusion in the next newsletter.

## BE Research on the Web

Altmetrics measures the attention a [DOI](#)-linked article receives on the web and tracks outlets such as Twitter, Facebook, LinkedIn, Google+, Wikipedia, Pinterest, blogs, Reddit, The Conversation and other media outlets. A new feature for 2016, each month we will list the top scoring articles from Built Environment and Design, sourced from [Altmetric Explorer](#).



### Top-mentioned Articles – from the Faculty

1. **Gethin Davison/Hoon Han/Edgar Liu:** [The impacts of affordable housing development on host neighbourhoods: two Australian case studies](#)
2. **Mat Santamouris:** [On the impact of urban heat island and global warming on the power demand and electricity consumption of buildings—A review](#)
3. **Gethin Davison:** [“There's Something about Subi”: Defending and Creating Neighbourhood Character in Perth, Australia](#)
4. **Mat Santamouris:** [Estimating the effect of using cool coatings on energy loads and thermal comfort in residential buildings in various climatic conditions](#)
5. **Russell Rodrigo:** [Aesthetics as a Practical Ethic](#)

## Top-mentioned Articles - Worldwide

1. [Til Work Do Us Part: The Social Fallacy of Long-distance Commuting](#) *Urban Studies*
2. [Determination of active travel speed for minimum air pollution inhalation](#) *International Journal of Sustainable Transportation*
3. [Pedestrians, Autonomous Vehicles, and Cities](#) *Journal of Planning Education & Research*
4. [Biodiverse perennial meadows have aesthetic value and increase residents' perceptions of site quality in urban green-space](#) *Landscape & Urban Planning*
5. [IBM's smart city as techno-utopian policy mobility](#) *City*

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## University Updates

### STATISTICAL REVIEW OF COMPETITIVE GRANT APPLICATIONS

[UNSW Stats Central](#) can now provide free statistical review of grant proposals to be submitted through UNSW to any scheme listed on the [Australian Competitive Grants Register](#), including all NHMRC and ARC schemes.

Researchers submitting competitive grant proposals can request a statistics review by completing the [Stats Central Grant Review Request Form](#). It is advised that you consult with a statistician as early as possible when preparing design/analysis aspects of your grant proposal, ideally before you start writing it. Detailed review of grant applications will only be possible if they are submitted by the **UNSW internal deadline**- see <https://research.unsw.edu.au/units/gmo-grants-management-office>, 'Internal Close'.

### ARC LINKAGE PROJECTS – 2016 SUBMISSION DEADLINES

The last date for current round of ARC Linkage Projects (UNSW submission to the ARC) is **Tuesday 20 December 2016**, the day prior to the University shutdown. No applications will be submitted to the ARC during the UNSW closure.

**All intending applicants should submit their Linkage proposal for review by the Grants Management Office a minimum of 2 weeks prior to their intended ARC submission date.**

**Important:** You will no longer be able to edit any unsubmitted applications remaining in RMS after 22 December 2016. Applicants wishing to re-use details entered in future rounds will need to copy and paste from the LP16 form into a new LP17 form.

Contacts for Support:

- The Research Strategy and Partnerships Office (RSPO) can provide strategic advice on the scope, nature and suitability of your project, how to address the selection criteria including track record, and well as support for approaching and talking to your partners. New and previous applicants to Linkage are strongly encouraged to liaise with the RSPO as early as possible- email James Walsh- [j.walsh@unsw.edu.au](mailto:j.walsh@unsw.edu.au).
- The Grants Management Office compliance and eligibility review process generally takes up to two weeks, with an average of 3-4 reviews per application. When you are ready for a compliance review, submit the proposal via RMS and email [mygrants.gmo@unsw.edu.au](mailto:mygrants.gmo@unsw.edu.au) to let GMO know.

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## Did You Know ...

Earlier this year there was an announcement advising that publications would no longer form part of the annual HERDC return. However, the University has determined that the internal collection and verification of outputs will remain as central to recording institutional performance.

The processes to be followed are very similar to the HERDC process, albeit with a couple of changes. The replacement process is called AROC (Annual Research Outputs Collection). It will collect traditional outputs (books, chapters, journal articles, conference papers) in the same way as



before, but it will also now collect **non-traditional research outputs** (NTROs). Types of NTROs included in AROC are:

- Original creative works (e.g. design/architectural work)
- Live performance of creative works (e.g. play, dance)
- Recorded/rendered creative works (e.g. audio/visual recording)
- Curated/produced substantial public exhibitions/events (e.g. web-based exhibition, festival)
- Research reports for an external body. (e.g. AHURI final reports)

The information collected as a part of AROC will be used as the basis for UNSW's ERA submission, to populate a range of university systems and profiles, and for a range of internal reporting activities. The [full AROC assessment criteria](#) is now available for download from the [faculty intranet](#). This site also contains a list of FAQs which detail definitions for each output type. I encourage you to make yourself familiar with the contents.

As we head towards the end of the year, if you haven't already done so, now is the time to [log into ROS](#) and check your 2016 research outputs – traditional and non-traditional types. There are four important tasks to cover off:

1. Check for any "Pending" publications and claim or reject them as appropriate.
2. Look at your 2016 publications list and make sure it's complete. If it isn't, add any relevant publications and nominate them for AROC consideration.
3. Go to "HERDC" >> "My Nominations" and check if any of your nominated publications require further information. Ensure that all relevant details are provided and accurate.
4. Also in "HERDC" >> "My Nominations", check for any publications that say not nominated and, if they are eligible for AROC, nominate them.

*(Note: The "HERDC" tab has not yet been updated in ROS, hence the occasional reference to this now defunct term.)*

Enquiries:

- ROS – contact [Kate Patrick](#), our outreach librarian, or [Toni Hodge](#)
- AROC – contact [Toni Hodge](#)

Please aim to have all of your 2016 updates completed by the **end of March 2017.**

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## HDR News

### NEWS AND ANNOUNCEMENTS

#### NOVEMBER GRADUATIONS

##### Graduating Students

Congratulations also to the following HDR candidates who also recently completed their degrees and graduated in the November Ceremony:

Name	Degree	Supervisors
Sanaz Hosseinabadi	PhD	Jon Lang
James Curry	PhD	Stan Fung, Maryam Gusheh and Paul Emmons
Laura Schmahmann	MPhil	Bill Randolph and Marcus Spiller (SGS Economics & Planning Pty Ltd)



## EVENTS

### Monthly Cohort Workshop

At last month's monthly cohort workshop, held on Wednesday 2 November, we had special guest speaker Russell Lowe present. Russell updated the cohort on recent changes to Ethics procedures.

### Wellbeing Workshop – Focusing on positive strategies

*Wednesday 7 December, 11am-12.30pm - Red Centre, Level 2, AGSU Room (RC2001)*

Title: Wellbeing and Psychological Resilience for the Postgrad Journey

Presenter: Ed Lukaszewski – Counsellor, UNSW Counselling and Psychological Services (CAPS)

The next monthly HDR cohort workshop will be held on Wednesday 7 December at 11am in the AGSU Room (RC2001). Ed Lukaszewski from CAPS will present to the cohort.

This workshop will focus on practical strategies for balancing the demands of postgraduate study, work and family life. These strategies include:

- Recognising sources of stress and how stresses affect our wellbeing
- Building supportive relationships with teachers, fellow students and friends
- Developing good communication and problem-solving skills
- Making realistic plans and managing time effectively
- Establishing boundaries between work and non-work
- Maintaining physical & mental health through regular sleep, exercise, balanced diet, & meditation.

### PGRS End of Year Dinner – Friday, 3 December

AL ASEEL Lebanese Restaurant

This year we are all off to AL ASEEL in Alexandria for an authentic Lebanese Feast teamed up with a night of hosted entertainment and good food.

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## Research Clusters News

### DESIGN RESEARCH COLLABORATION CLUSTER

The Design Research cluster met at the Sydney Institute of Marine Science in Chowder Bay for our annual research retreat on November 16. Samantha Donnelly, Maryam Gusheh, Laurence Kimmel, Ainslie Murray, Marjo Nimelä, Katrina Simon and Christian Tietz each presented current research projects. Eva Rodriguez Riestra, curator of our upcoming exhibition **Make Known** at UNSW Galleries in 2018, also joined us and discussed her vision for this major show in which the practice-led research of BE staff will be situated alongside the work of international artists and designers.

## HIGH PERFORMANCE ARCHITECTURE CLUSTER

### Projects

1. The research infrastructure project “**High Resolution Remote Sensing Experimental Unit to Monitor Urban Climate Change and Assess the Performance of Mitigation Technologies**” has been approved. The main objective of the proposed infrastructure is to create an advanced monitoring system able to perform large scale measurements at high spatial resolution in the urban environment to monitor the characteristics of the urban microclimate and urban heat island and also to assess the thermal performance of applied mitigation technologies. Researchers consist of Professor Mat Santamouris (Project Leader), Professor Chris Pettit, Scientia Professor Deo Prasad, Associate Professor Francesco Fiorito, Dr Lan Ding, Dr Melissa Hart, Dr Philip Oldfield and Dr Paul Osmond.
2. “**Guide to Urban Cooling Strategies**” has been approved by CRC for Low Carbon Living. The project will draw on current CRC LCL and external urban microclimate research to provide the evidence base for cooling strategies for major Australian urban centres. These strategies will respond to the interrelated challenges of climate change and heat island effects by documenting a range of passive and active cooling measures, their relative effectiveness and implementation methods, aimed at planners, urban designers, landscape architects and managers. Dr Paul Osmond is Project Leader and project partners are HASSELL, AECOM and the NSW Office of Environment and Heritage.

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## Upcoming Events

### **Construction Industry: Demolishing gender structures**

*Wednesday 7 December 9.30am – 11.30am | Australian Human Rights Commission, Level 3, 175 Pitt Street Sydney*

The construction industry is the most male-dominated sector in Australia: women represent only 12% of the workforce. At this event the research team will present findings from a major research project about gender equality in the construction industry. The Australian Sex Discrimination Commissioner, Kate Jenkins, will launch the findings, which outline key challenges in implementing strategies at the coalface to attract, retain and support the progression of women in large construction companies and highlight new approaches for achieving gender equality in the sector.

[More information and registration](#)

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## Publications

No updates on the publication list due to an essential system maintenance to ROS.

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## Funding/Research Opportunities

### **Office of Environment and Heritage (NSW) | Major Works Grants**

The NSW Government is committed to ensuring that our heritage is valued, protected and enjoyed. The purpose of this project is to conserve, protect, maintain, enhance and celebrate items listed on the State Heritage Register, by assisting owners and managers of SHR listed items to conserve restore and reuse their heritage properties. Up to \$150,000 (ex GST) grand funding is available to successful applicants for use over two years (2017-18 and 2018-19). A matching funding contribution is required from the successful applicant. [More information](#)

**External deadline: 12 December 2016**

### **European Commission | Mobility for Growth – Increasing the Take Up and Scale-Up of Innovative Solutions to Achieve Sustainable Mobility in Urban Areas**

Specific Challenge:

Many innovative solutions (supported by STEER[1], CIVITAS, national, regional, local, international and other initiatives) for sustainable urban mobility were locally developed or developed as self-standing projects in a variety of social, economic and geographical contexts. The specific challenge is to increase the take up of innovative solutions by transferring them to new contexts and studying and comparing the impacts. Special attention should be paid to social issues and implications. Where relevant, potential gender differences should be investigated.

[More information](#)

**External deadline: 26 January 2017 17:00:00 (Brussels time)**

### **Mellon (Paul) Centre for Studies in British Art | Postdoctoral Fellowships**

The Paul Mellon Centre for Studies in British Art offers a variety of Fellowships (for individuals) and Grants (for institutions and individuals) twice a year in a strictly timetabled schedule. The programme supports scholarship, academic research and the dissemination of knowledge in the field of British art and architectural history from the medieval period to the present, although all supported topics must have an historical perspective. There are no discretionary funds outside the stated programme.

[More information](#)

**External deadline: 31 January 2017**

### **European Commission | Smart Cities and Communities lighthouse projects**

Specific Challenge:

To demonstrate solutions at district scale integrating smart homes and buildings, smart grids (electricity, district heating, telecom, water, etc.), energy storage, electric vehicles and smart charging infrastructures as well as latest generation ICT platforms which must be based on open specifications. This should be accompanied by energy efficiency measures and the use of very high shares of renewables at the level of districts. The goal is to facilitate a successful transformation towards intelligent, user-driven and demand-oriented city infrastructures and services. [More information](#)

**External deadline: 14 February 2017 17:00:00 (Brussels time)**

### **Department of Industry, Innovation and Science | Citizen Science Grants**

Citizen Science Grants is an element of the [Inspiring Australia – Science Engagement Programme](#) that aims to provide opportunities for the public to engage in science by participating in scientific research projects that include the collection or transformation of data in Australia.

Participants will be able to take part in scientific research projects by a range of means, including collecting and analysing data, formulating questions and organising research teams. Research projects are expected to be peer-reviewed and produce credible, reliable data that will be shared (as appropriate) with participants, the science community and the public. [More information](#)

**External deadline: 17 February 2017**

### **Graham Foundation for Advanced Studies in Fine Arts | Grants for Organizations**

The Graham Foundation offers Production, Presentation and Publication Support Grants to organizations. These grants assist organizations with the production-related expenses that are necessary to take a project from conceptualization to realization and public presentation. These projects include, but are not limited to, publications, exhibitions, installations, films, new media projects, conferences/lectures, and other public programs. [More information](#)

**External deadline: 25 February 2017**

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## **Researcher Development – UNSW Workshops**

**Expressions of Interest (EOI) are open for the entire suite of Researcher Development Workshop Offerings for 2017.** Identify what you need at this current stage of your career as a Researcher or as a Professional working with Researchers.

[Register your EOI here for 2017 Workshops](#) closes 8 Dec 2016.



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## Related Links

[BE Research Resources](#)

[UNSW Research](#)

This is the last *Built Environment Research News* for 2016. We wish everyone a great Christmas break and we will return in the new year!

