From the Associate Dean Research

The UNSW 2025 Strategy released late last year is already set to become reality this year. The aspirations span the entire operations of this and other faculties. But the two primary commitments announced in the Strategy were research orientated, namely:

1. World-leading research of the highest ethical standards and integrity across the full spectrum of arts, built environment, business, design, law, social sciences, engineering, medicine and science.
2. Research impact through the generation of new knowledge applied to solve complex problems, deliver social benefits and drive economic prosperity, locally, nationally and globally.

We are about to get much more substance about pathways to attainment of these grand goals with an implementation strategy imminent. We will just have to wait perhaps only into next week to learn just how the university proposes to achieve all its goals over the next decade.

But there is no doubt that the strategy and its implementation will need to be factored directly into the faculty's research strategy. That doesn't mean shoehorned because the diversity of what we do has to be valued. But with resource allocation likely to be directly linked to faculty responses to the strategy, the nexus will need to be uppermost in our thinking.

It seems likely that there will be greater scrutiny of our research performance individually and collectively. The university’s Research Analysis, Performance & Profile Office has been active in working and advising on metrics to improve, supplant or supplement the ‘new’ measure of research performance introduced in 2014.

We can also anticipate that there will be the opportunity if not need to identify particular research areas where we should build up our productive capacity as well as reinforce our current expertise. Identifying the right areas with the potential for maximum impact will be critical. The results in the ERA2015 provide some guidance but many other institutional and strategic factors will come into play.

The international dimension will unequivocally loom large in the university’s thinking, and the launch of the PLuS Alliance with King’s College London and Arizona State University Phoenix last month underscores what UNSW considers will be a major platform. Urbanisation has been named as a prospective ‘grand challenge’ and while it is evident that it has not emerged as a priority in 2016 it will remain a future imperative for us.

One way or the other, the general aspirations for moving decisively on advancing UNSW’s reputation for research excellence are now set to be translated into a firmer set of actions that will inevitably have implications for research management in the faculty.

Rob Freestone
Associate Dean Research
BE IN UNSW ‘RISING STARS’.

20 Rising Stars is the third and final brochure in the Research@UNSW 10-15-20 series. The earlier editions were “10 innovations that changed our world” and “15 Women Changing Our World”. While BE was conspicuously absent in the two earlier issues, this time round two of the “20 rising stars who will change our world” are colleagues: Hazel Easthope (linked to the theme of “future cities” and Hank Haeusler (“smart cities”). Short profiles of their respective research work are given: Hazel on high density living and Hank on smart urban infrastructure.

UDIA CITYLIFE RESEARCH COMPETITION – BUILT ENVIRONMENT SUCCESS

Built Environment has had success with the inaugural ‘CityLife’ research competition sponsored by the Urban Development Institute of Australia (NSW). The competition attracted over 60 entries including from overseas. The entry of Cox-UNSW was announced as one of three winners in the competition at a UDIA (NSW) function on 25 February. This was a partnership between Conjoint Professor Philip Graus and Dr Hank Haeusler, Discipline Director for CoDe. They responded to the ‘Connected Cities’ theme of the competition with a digital technology solution for securing better communication possibilities between city stakeholders. The idea they will develop is an ‘urban pinboard’ – a new digital platform (app) making urban data more readily available.

FACULTY SEMINAR: THE ARC AND BUILT ENVIRONMENT & DESIGN RESEARCH

On Wednesday 17 February 2016, Scientia Professor Dennis Del Favero, Executive Director for the ARC in Humanities and Creative Arts, gave a presentation on behalf of the Australian Research Council dealing with recent changes in programs, the characteristics of the best, most competitive applications, and recent trends in financial support for Field of Research (FoR) 12 (Built Environment and Design). This presentation was one of a number nationally for various FoR codes which Professor Del Favero is giving and the ‘master’ presentation is available on the ARC website.

Image credit: Laura Crommelin
Meet the Researchers – Francesco Fiorito

Francesco is Associate Professor in High Performance Architecture. Prior to joining UNSW BE he held appointments at The University of Sydney in the Architectural Science discipline and at Politecnico di Bari (Italy) in the Architectural Engineering program.

Francesco teaches in the Architecture program the third-year unit on “Architectural Fabrication” and the units on “Architectural Environment and Building Services” and “High Performance Building Systems” in the Master of Architecture. He also supervises research students.

His main research expertise is in facade engineering and design. His PhD (2006) in Building Engineering focused on the use of innovative materials for controlling natural light in office buildings. In recent years his research has focused on the development of technologies and systems for kinetic facades. In particular, Francesco aims to explore the use of smart materials (shape memory alloys, phase-change materials, and chromogenic materials) in order to create self-adaptive building components. Reduction of building energy demand and increase of indoor comfort are the final goals.

Francesco is currently the Australian representative in the European COST Action on “Adaptive Facades Network” and has been involved – as representative for Italy – in the COST action on “Structural Glass - Novel design methods and next generation products”. Moreover he has been involved as Chief Investigator in several research projects in Australia and overseas. He is currently CI of the ARC-funded Training Centre for Advanced Manufacturing of Prefabricated Housing.

Francesco is an Associate Editor of the International Journal Architectural Science Review and is the co-chair of the conference on International High-Performance Built Environments, part of the SBE16 series, organized by UNSW BE and by the CRC for Low Carbon Living to be hosted in Sydney in November 2016.

BE Research in the News

**Susan Thompson:** Personal Trainers Charged Thousands to use Public Parks as Group Training Trend Soars. The Huffington Post, 26 February 2016. [View online](#).

**Xing Ruan:** We Should Learn a Lesson Two from History About the Art of the Window – UNSW’s Xing Ruan. Architecture and Design, 16 February 2016. [View online](#).

**Susan Thompson:** A Very Pointy Future. ABC Radio National, 14 February 2016. [View online](#).

Have you have had your research mentioned in the media recently?
Send details to [Toni Hodge](#) 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. Martin Loosemore: Hospital Learning from Extreme Weather Events: Using causal loop diagrams
2. Hank Haessler: From Users to Citizens: Some thoughts on designing for polity and civics
3. Ilan Vizel: Housing for People with Intellectual Disabilities and the National Disability Insurance Scheme Reforms
4. Peter Williams: The Affordable Housing Conundrum: Shifting policy approaches in Australia
5. Scott Lieske: How the DPSIR Framework can be used for Structuring Problems and Facilitating Empirical Research in Coastal Systems

Top-mentioned Articles - Worldwide

1. Does Urban Sprawl Hold Down Upward Mobility? Landscape & Urban Planning
3. Impact of Views to School Landscapes on Recovery from Stress and Mental Fatigue. Landscape & Urban Planning
5. The Effect of Microneighborhood Conditions on Adult Educational Attainment in a Subsidized Housing Intervention. Housing Policy Debate

University Updates

CHANGES TO THE HERDC PUBLICATION REPORTING
Major changes have been announced to the annual Higher Education Research Data Collection (HERDC) specifications in 2016, with research publications data being removed. This change reflects recommendations contained within the "Watt Review" for the Commonwealth Government which recommended that research block grant funding to universities be driven only by grant income and research student completions.

While this change effectively cancels the rationale of the annual HERDC publications collection, including the collection currently underway, the University Executive Team have agreed that the HERDC collection will remain in 2016, resolving:
(1) An annual verified publications collection provides the University with a core dataset that is vital for a number of purposes;
(2) Given the timing of this announcement and the significant progress already made on the 2016 HERDC publications return, UNSW will proceed with completing the 2016 HERDC Collection of 2015 Publications as planned;
(3) UNSW will use the 2015 HERDC specifications as assessment guidelines and we will use the existing schedule to ensure the data collection, verification and audit are completed by 30 June 2016; and
(4) During 2016, UNSW will undertake a review to determine the form of an annual UNSW publications collection activity.
The review will seek to build on the annual HERDC publications collection to ensure data continuity and consider how to align the collection more closely with requirements for the ERA and any future impact assessment exercises.

Within the faculty it will also be necessary to review the allocation of the annual HERDC dividend, and this will be undertaken during 2016. Watch this space for further updates.

**UNSW SUPERVISING DOCTORAL STUDIES (SDS) EPIGEUM ONLINE RESOURCE**

A new Researcher Development initiative has just been released for those supervising doctoral students; the online UNSW Supervising Doctoral Studies (SDS), Epigeum resource, which is an integral piece of the [UNSW Academic Career Development Framework (ACDF)](https://research.unsw.edu.au/supervision).

The eight (8) modules and activities contained in this resource have been created with input from 21 institutions worldwide, five from Australia including UNSW Academics.

They have been customised with UNSW policies, resources and context, and contain topics suitable for *all supervisors*, from those considering the step to highly experienced, as they can self-determine the areas where they would like to enhance their knowledge, understanding and best practice awareness.

**Access details for staff** (Staff zPass authentication needed) to this resource is via the new supervision webpage: [https://research.unsw.edu.au/supervision](https://research.unsw.edu.au/supervision).

**UNSW-INDONESIA RESEARCH ROADSHOW**

The Division of Research & the International Office is inviting participation from UNSW researchers in a “UNSW-Indonesia Research Roadshow” in Indonesia this coming April.

“Sustainability and the Built Environment” has been selected as one of three key subject areas. It is envisaged that 10-20 UNSW Researchers will participate in the Roadshow with 50% of participants to be early career researchers and a minimum of four faculties represented, with one surely BE.

The aim of these workshops is to encourage research collaboration, with the future aim of establishing a seed funding program between UNSW and the partner universities.

Anyone interested is invited to submit an abstract by Sunday 13 March 2016.

For further information regarding this roadshow please refer to the email circulated to all staff on 25 February 2016, or contact Toni Hodge for details.

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**News from the Centres – CRC for Low Carbon Living**

**UNSW NODE UPDATE**

The University of New South Wales Node has awarded top-up scholarships to an additional three PhD students, making a total of ten PhD students undertaking research associated with the Node.

The Node students from BE include Adriana Sanchez, Carlos Bartesaghi Koc, William Craft, Sardar Masud Karim, Siliang Yang, Samin Marzban and Claudio Diaz Sandoval, and their BE supervisors are: Dr Paul Osmond, Professor Alan Peters, A/Professor Francesco Fiorito, Professor Susan Thompson, Dr Peter Williams, Dr Matthias Iger, Scientia Professor Deo Prasad, and Dr Lan Ding (Node Project Leader).

The Node is planning a meeting with its Project Steering Committee to discuss strategic direction and engagement activities in the following few months.
The International High-Performance Built Environments conference (SBE16 Sydney), organized by UNSW Built Environment and CRC for Low Carbon Living, will be held on 17 - 18 November 2016 at the Australian National Maritime Museum in Sydney. The conference has received 300 abstracts so far across a broad range of research areas in design innovation and collaboration, built environment resilience, smart built environments, performance assessment in built environments, etc. The conference video is available at: https://www.youtube.com/watch?v=1imBWEmMSBU

CRC FOR LOW CARBON LIVING VIDEO AND SNAPSHOTs
The CRC for Low Carbon Living has released a new video showcasing the experiences of the Higher Degree Research students contributing to its projects, many of which are from the UNSW Faculty of Built Environment, as well as a series of snapshots highlighting the CRC’s contribution to a lower carbon built environment sector.

View the video on the CRCLCL’s YouTube channel: https://youtu.be/iox18xFDhs4

SAVE THE DATE - CRCLCL PARTICIPANTS ANNUAL FORUM 2016
Please save the date for the CRC for Low Carbon Living’s Participants Annual Forum to be held on Tuesday 15 and Wednesday 16 November 2016 at the Australian National Maritime Museum in Sydney. The Forum is an opportunity to network and hear about the CRCLCL’s latest research, as well as from leading experts in the sustainable built environment field.

The Forum will take place prior to the Sustainable Built Environment Conference (SBE16) Sydney, being held on Thursday 17 and Friday 18 November, also at the Australian National Maritime Museum.

NEW CRC FOR LOW CARBON LIVING PROJECT IN OFF-SITE RENEWABLE GENERATION
A new project of the CRC for Low Carbon Living will see the University of New South Wales, AECOM and Brookfield Multiplex work together to provide large energy users with frameworks and tools that facilitate their use of off-site renewable generation in order to improve their environmental performance.

These users would benefit from innovative electricity purchasing options that provide tangible engagement with off-site renewable generation projects. This project will investigate the regulatory and commercial aspects involved in providing such options in Australia.

The project is being led by Dr Emily Mitchell of the School of Photovoltaic and Renewable Energy Engineering. For further information, visit the CRC for Low Carbon Living website.

DEO PRASAD ON ENERGY RATING TOOLS AND HIGH PERFORMANCE
In his latest article for Sourceable, Scientia Professor Deo Prasad discussed current energy rating tools, and what evidence needs to be gathered and work done in order to develop the next generation for regulating and assessing low to zero carbon buildings. Read the article.

HDR News

NEWS AND ANNOUNCEMENTS
Induction Day for all new HDR students is planned for Thursday 14 April. An introduction to the Faculty, its facilities and services, along with information on research funding, ethics and the APR process will be followed by a luncheon for all new students and their supervisors. All of the HDR cohort will be invited, providing an opportunity for new students to meet and socialise with their colleagues.
MONTHLY COHORT WORKSHOP
At last month's monthly cohort workshop, which was held on Wednesday 17th February, we had three guest speakers come along to give a talk to the cohort.

- Nurul Annuar spoke about: 'Life between a mum & a student'. Nurul shared some neat 'insider tricks' on how to balance a PhD with family life.

- Sarbeswar Praharaj spoke about: Aesthetics of Destination in the 'City of Joy'. For anyone who doesn't know it already, the city of 'joy' is 'Kolkata' (formerly known as Calcutta). It's in India, and that's where Sarbeshwar comes from.

- Adriana Gomez spoke about the upcoming SBE16 conference. Adriana gave an overview of the SBE16 conference that will be held in Sydney which later in the year and is being organised by the BE, she discussed with students how they can participate.

Did You Know...?

HERDC Top Tip – Add your Scopus ID to your ROS Profile

Did you know you can add your Scopus Author ID to your ROS profile to improve the accuracy of your automated searches? Once your Scopus Author ID is added in My Search Settings, save time by Verifying your ID. With a verified Scopus Author ID, any publication records harvested through Scopus will be added to your publications list automatically without the need to log in and manually claim them.

For more information see the ROS Help Guide or contact faculty outreach librarian Kate Patrick.

Upcoming Events

Faculty Research Seminar: The “Bedroom Tax” Down-Under: A Comparative Analysis of Social Housing Reform
Jed Meers, University of York, UK

Wednesday 9 March 2016; 12.00- 1.30pm, Room 4035, Red Centre
More information RSVP

Faculty Research Seminar: Housing, Poverty and Place: Linkages, Trends and Analytical Techniques
Prof Glen Bramley, Heriot Watt University, Edinburgh
Prof Peter Saunders, Social Policy Research Centre, UNSW
Prof Hal Pawson, City Futures Research Centre, UNSW

Thursday 17 March 2016; 12.00 – 2.00pm (lunch provided), Room 4035, Red Centre
More information RSVP
Publications

The following 2015/16 research activities have been entered into ROS since the release of the last newsletter.

Books


Book Chapters


Conference Papers


Creative Works (non-textual)


Creative Written Works


Journal Articles


Reports

New External Grants Awarded

**Katy Bridge**
Department of Health/Commonwealth Government Contract: $313,663.00
*DoH CHSP HMInfo – Home Modification Maintenance Information Clearing House*

**Bill Randolph**
NSW Department of Family and Community Services: $37,508.00
*Rent and Sales Report Dec 2015 and Mar 2016*

**Rob Freestone**
University of Melbourne/ARC Discovery Project Shared Grant: $26,331.00
*The post-World War Two evolution of the Australian university campus.*

New Internal Grants Awarded

**Deo Prasad**
UNSW/CRC for Low Carbon Living Central Contribution: $4,596,000.00
*The CRC for Low Carbon Living*

Funding/Research Opportunities

**Department of Industry, Innovation and Science | Cooperative Research Centre Projects (CRC-Ps)**
CRC-Ps will deliver a short term, industry-identified and industry-led collaborative research project to develop a product, service or process that will solve problems for business and deliver tangible outcomes. Projects should benefit SMEs and increase their capacity to grow and adapt in changing markets.

*Application Information | FAQs*

*Intending applicants are advised to contact the Research Strategy and Partnership Office (enquiries.rso@unsw.edu.au) to discuss the suitability of this program to your research plan.*

**External Deadline:** 17 March 2016

**Australian Academy of the Humanities | Grants and Fellowships**
- *Humanities Travelling Fellowships* - to support early career researchers in the Humanities to undertake research overseas, including accessing archives and other research materials and connecting with international researchers and networks.
− **Publication Subsidy Scheme**- to support the publication of scholarly works of high quality in the Humanities.

**External Deadline:** 24 March 2016

Department of Industry, Innovation and Science | Cooperative Research Centres
The CRC Programme supports industry-led collaborations between researchers, industry and the community; including the development of new technologies, products and services that help solve major economic, environmental and social challenges facing Australia.

**The Programme aims to:**
− Improve the competitiveness, productivity and sustainability of Australian industries, especially where Australia has a competitive strength, and in line with Government Priorities.
− Foster high quality research to solve industry-identified problems through industry-led and outcome-focused collaborative research partnerships between industry entities and research organisations
− Encourage and facilitate small and medium enterprise (SME) participation in collaborative research

[Application Information] [FAQs]

*Intending applicants are advised to contact the Research Strategy and Partnership Office (enquiries.rso@unsw.edu.au) to discuss the suitability of this program to your research plan.*

**External Deadline:** 31 March 2016

Association of Commonwealth Universities | Early Career Academic Grants (UK)
Enables early career academics to participate in a conference held in another Commonwealth Country. Applications are open to university staff who are less than ten years from the start of their employment in an academic role … [more]

**External Deadline:** 15 April 2016

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**Researcher Development – Workshops**

**Orientation to Research**
*Tues 8 March 10am - 1pm*
Are you a researcher or administrator new to UNSW? Then *Orientation to Research* is not to be missed! Register now to meet key staff from the Division of Research and find out how we can support you in developing your career. [Register]

**Starting HDRs off on the right foot**
*Tues 29 March 9.30am - 12pm*
Are you a new supervisor of HDR? Then this workshop will assist you in understanding your roles and responsibilities as well as considering your expectations in fostering this relationship. [Register]

**Supporting HDR student's academic reading & literature review**
*Wed 6 April 9.30am - 12.30pm*
Do you feel confident providing effective and structured feedback and support for your HDR student's academic reading? This workshops helps to provide clear advice tailored to your HDR's approach to encourage timely completion of a literature review. [Register]

**WiRN: Unconscious Bias**
*Fri 1 April 10.30am - 12.30pm*
What is unconscious bias and how does it affect decisions you make about yourself and others? In
this workshop, Professor Wood will provide you with simple strategies for minimising the effects of these biases and blind spots. Register

Related Links

BE Research Resources
UNSW Research