Dear Alumni

It’s been another wonderful year at the School – we continue to be ranked in the world’s top twenty (QS World University Rankings 2014) just as we continue to grow in research and teaching strength. Our research centres and groups are flourishing – with key staff hires, expanding research publications, great successes in securing the highly competitive Australian Research Council grants, (see our back page for details), and important conference hosting - while the new School Teaching Initiative Grants Scheme (STIGS) has been very successful in providing support for our dedicated and enthusiastic teachers.

One of the highlights for me this year was the academic staff retreat we held early in the year which focused on Teaching Efficacy and Quality. Our large student numbers continue to pose some challenges – in particular amongst our first year students - a challenge met firmly by our student organisation CEVSOC who ran, with School support, another fantastic first year camp in the Southern Highlands.

If we are proud of our achievements, we are just as proud of yours – and in this newsletter we profile just some of the achievements and awards of our many innovative and hardworking alumni.

I thank you for your continuing interest in the activities and achievements of the School, and I urge you to stay in touch. Information about our alumni online registration is located on page 7 of this newsletter.

PROFESSOR STEPHEN FOSTER
Professor and Head, School of Civil and Environmental Engineering

Good News Rankings

For the third consecutive year, the School has been ranked as one of the global top twenty civil engineering schools – in the latest QS World University Rankings.

In September UNSW Faculty of Engineering climbed six places to rank World No 27 in the QS World University Rankings thanks to our excellence in academic and employer reputation and strong subject performances.

School Statistics 2014

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www.civeng.unsw.edu.au
External Relations Contact Dr Mary O’Connell m.oconnell@unsw.edu.au
School shines at Sydney Engineering Excellence Awards

Congratulations to the School’s research and teaching teams and our industry and government partners who won acclaim and awards at the 2014 Sydney Engineering Excellence Awards.

The School’s Water Research Laboratory won the Environment and Heritage Award for their world-leading example of eco-engineering - the Tomago Wetlands Restoration Project. Congratulations to Dr Will Glamore and his team at WRL, (pictured).

The School also received the highest honour awarded for the 2014 Education and Training category – for the innovative MEngSc in project management specifically developed for industry partners Leighton Holdings. Congratulations to Professor David Carmichael and the academic and professional staff team at CVEN, as well as to our partners at Leighton Holdings.

Our Research Centre for Integrated Transport Innovation - rCITI's project for instrumented vehicle technology also reached the finals in two categories; Research and development and, Welfare, Health and Safety. Our congratulations to Dr Vinayak Dixit, Professor Travis Waller, Dr Zhitaao Xiong and their GoGet Carshare partners for their cutting edge work.

Student Successes

PhD student James de Burgh won the National Concrete Institute of Australia (CIA) Competition on “Pushing the Boundaries in Concrete Technology”.

Deans Award-winning student Alison Goddard BE (Civil) BCom (Finance), was one of only eight Australian Engineering students across the country selected to attend the World Conference on Timber Engineering 2014 (WCTE 2014) in August in Quebec City.

Aaron Hargraves BE Civil, was awarded the Institute of Transportation Engineers ANZ Undergraduate Student Prize. The award was granted for his honours thesis, titled ‘A Feasibility Study into the use of String Transport Systems for Passenger Rail in NSW’.

PhD graduate Xiu Yuan (Joyce) was granted a prestigious National Award for Outstanding Self-financed Chinese Students Studying Abroad by the China Scholarship Council. Joyce’s PhD topic in environmental engineering focused on the light and free-radical mediated transformation kinetics of copper species in natural water systems.

As part of our own mission to inspire the next generation, the School hosted tables at the event for careers advisers from around NSW and staff from the NSW Department of Education. As one of our delighted guests said, ‘It amazes me that engineering is such a diverse profession!’ Another adviser noted that it was very clear from the awards evening that UNSW is the leading engineering university of the state. Of course we couldn’t agree more!
Keeping the Focus on Good Teaching

At the beginning of the year the School held a one day staff retreat which focused on ‘Efficacy & Quality in Teaching’. Topics explored included current innovations in School teaching and learning; improving the student experience with field work, excursions and laboratories; supporting independent student learning; managing large classes; and how to measure, acknowledge and reward good teaching. Six academic staff (pictured at the retreat) were also awarded School Teaching Initiative Grants for 2014.

Dr Steven Davis’s work is on continuing online assessment of graphical modelling programs in project management postgraduate courses. Dr Fiona Johnson will develop hydrology/water resources engineering online assessment tasks for third year students. Associate Professor Stuart Khan will provide coursework students with three practical ‘Hands-on’ Water Quality Analysis Laboratory classes – along with a new specifically designed comprehensive laboratory handbook. Stephen Moore and Professor Richard Stuetz are planning a Year 4 Sustainable Infrastructure Showcase Event; and are also involved in creating scenario based eLearning – analysing and developing of water/wastewater process treatment flowsheets. Finally, Dr Hamid Valipour aims to enhance the student learning experience in structural design by using podcasts – focusing on practical design of steel and reinforced concrete structures.

Teaching Equipment Grants

Lecturer in construction Management, Dr Johnson Shen was finding it almost impossible to run construction site tours for his large classes due to workplace safety concerns and limited space at the site. He decided that one solution would be to provide students with the experience of undertaking scaled construction projects in a safe and realistic laboratory environment. It’s still very early days but from his student’s initial reactions, he knows that ‘they love the ideas – and it is great fun to operate those scaled construction equipment models.’

The models were purchased as part of a School initiative for 2014 - the introduction of Teaching Equipment Grants for the support of in-class teaching equipment to improve teaching to large classes and improve student experience by bringing the laboratory to the classroom.

Three other grants were awarded to teaching staff for 2014:

Dr Ehab Hamed: Physical structural modelling in large classes;
Dr Carolin Birch: Instructional Shake Table II Workstation;
Dr Stefan Felder and A/Prof Bill Peirson: Upgrade hydraulic flow meters.

Year 4 - planning of sustainable infrastructure

The School held a showcase event to celebrate the work of our creative and forward thinking young engineers studying the planning of sustainable infrastructure (CVEN4701) For three months, sixty-five Year 4 environmental and civil engineers examined the environmental issues associated with the proposed Ranger uranium mine extension in Kakadu. In addition, they designed more sustainable infrastructure to support the transformation of the nearby town of Jabiru, to enable it to have an economy based on eco-tourism into the future, after the uranium mine closes in 2021.

The resulting posters were judged by special guests and industry partners including leading international waste management expert Professor Shinichi Sakai from Kyoto University; Professor Nakata from Nura Gili, the Centre for Indigenous Programs at UNSW; and Safiah Moore, from School industry partner Arup.

Year Camp (FYC) was ‘all about having fun, meeting new people and feeling more comfortable with university and engineering.’ CEVSOC said they themselves could hardly wait for ‘the challenges, the creativity, the sweat, the team bonding, the cheering and support and for all the fun and games of First Year camp.’ Our congrats to their organising and community spirit.

CEVSOC Year 1 camp

In April this year, over 120 Year 1 students attended a three day camp at Wombaroo in the Southern Highlands, with 20 Year 4 CVEN students involved as mentors. Organised by student organisation CEVSOC, the First
Dave Stewart is the Secretary, Transport for NSW, the overarching body for transport services, infrastructure and freight in NSW. Transport for NSW was created in 2011 to promote an integrated approach for transport modes, and to improve transport outcomes for the community and the economy.

The Transport for NSW process began by looking at what the broad range of customers valued, and developing goals and strategies that met customers’ expectations and also planned for the future transport system needed to support a thriving NSW.

“We need to understand our customers, what they need and want and then build a whole system that supports those values now and into the future” Dave says. “It’s more than just planning and promises, it’s about getting things done and frequently checking in to see how the community and industry are responding.”

Dr Jacqueline Thomas

BSc/BA (Hons), PhD Civil and Environmental Engineering 2012, Senior Scientist, Water, Sanitation and Hygiene Research, Ifakara Health Institute, Ifakara, Morogoro, Tanzania

In the East African country of Tanzania, 9% of all deaths of children aged under 5 occur from diarrhoeal disease in part due to poor water supply and low level sanitation. As a Senior Scientist working for the Ifakara Health Institute in Tanzania, School PhD alumnus Dr Jacqueline Thomas is working on interventions that can make a huge difference to populations not just in Tanzania but around the world.

In Tanzania, water supply is typically taken from shallow open wells, many of which can be easily contaminated by pit latrines. Interventions are a proven means to reduced diarrhoeal disease risk by around a third. Jacquie is researching the effectiveness of household level water and sanitation interventions that could be brought to scale via market demand.

Jacquie and her team are developing an innovative chlorine dosing mechanism for locally-made ceramic filter pots to achieve complete household-level drinking water treatment for low-income communities.

But how do you stop this contamination of water supplies in the first place? You need to find an appropriate treatment solution and an end-use for the faecal sludge. Jacquie is currently looking at ways of addressing this.

There are two main issues that direct the research focus. Firstly, there is limited agricultural productivity due to the expense of commercial mineral fertilisers in Tanzania. Secondly, only about 20% of the population is connected to electricity, so most people use charcoal to cook with - which results in rampant deforestation.

“The challenge in developing countries is providing drinking water and safe sanitation,” she says, “using techniques and technologies that people can afford to pay for; that can be locally produced and that are sustainable”

Dr Thomas worked with a team that developed a rice husk-fired furnace to sterilise human waste and recapture nutrients and energy, creating safe biosolids for agricultural reuse. Then, via pyrolysis of dried faecal sludge, biochar bricks can be produced to replace the use of charcoal from virgin forests. The whole system can be operated by local entrepreneurs and will hopefully motivate significant up-take of ecologically sound sanitation.

Jacquie’s greatest challenge has been advocating for change, seeing a problem and a way to address it but having to take on the cultural, economic and political barriers involved to make things happen. However, she hopes that her work will continue to make a difference, and more local communities can benefit from the technology her project has developed.
Dr James Glastonbury

PhD Civil Engineering 2002
Engineering Director Laing O’Rourke
Member CVEN Industry Advisory Committee

When James Glastonbury joined the multi-national privately owned engineering firm Laing O’Rourke in early 2013, he knew it wasn’t a typical engineering career move. Rather, he realised it could be considered an engineer’s dream role.

James is a director with the Engineering Excellence Group at Laing O’Rourke, a global team of technical specialists and innovators that seek smarter ways to do things, to challenge traditional practice. He sits in between the ‘blue sky thinkers’ and project teams and brings them together so that the innovations and thoughts can be manifested in real situations.

... an engineer’s dream role...

“The challenge for us in the current economic climate is that infrastructure owners are spending less money on constructing new assets and seeking more from existing assets,” said James. “We offer opportunities that help clients better understand and optimise their assets without increasing their capital spend.” This in turn helps clients plan the design of new assets to be more efficient, saving time and money in the long run.

James relishes the conversations he has with clients about how new ideas and technologies could be integrated into projects to provide greater efficiency. He focuses on innovative engineering solutions that can provide smarter, faster, cheaper and safer delivery, increased quality and improved performance.

Laing O’Rourke was recently listed in the top 10 of the BRW Most Innovative Companies, in part due to some of the ground-breaking work happening within their Engineering Excellence Group. They recently worked on a project to optimise the power supply at remote project sites – which is unreliable at the best of times. They were able to develop a hybrid solar-diesel power system that has had significant operational, commercial and environmental benefits – a massive improvement.

“Laing O’Rourke is an exciting organisation to be part of – there is an inherent appetite to explore and invest in new ideas,” he says. Sometimes the technologies he uses come from completely unrelated industries or are unproven in the construction sector, so the challenge lies in having clients prepared to “go on the journey”, to find a better way.

So where did he begin? James comes from a long line of engineers and, after studying a combined undergraduate degree in civil engineering and geology, it was the Thredbo Landslide in 1997 which led to a PhD in geotechnical engineering at UNSW and really focused his career. He looked at slope behaviour prior to a landslide, and developed slope risk management tools that have been used by various agencies for better managing landslide risk, igniting a passion for innovation which has remained to this day.

James believes that stepping into his role at Laing O’Rourke was like having a second career, and one which he hopes to continue indefinitely. “I love what I do – it’s both exciting and challenging at the same time.”

Narelle Underwood

BE Hons 1 Surveying and Spatial Information Systems, ’09
Registered Land Surveyor – Acting Manager Geospatial Technologies
Roads and Maritime Services

Surveying is a complex and rapidly changing industry, with the resulting challenge for surveyors to keep up to date with the latest technology. Narelle Underwood is one of the fortunate ones, in her role as Surveyor with the NSW Government agency Roads and Maritime Services she has the unique opportunity to be able to access to some of the most recent developments in surveying.

RMS partners with many innovative companies – both private and public – who supply a range of different technologies. That means, on any given project, Narelle is able to hand pick the tools she feels would provide the best results and in the optimum timeframe. “Merging new and traditional technologies continues to be one of my greatest joys. Combining data drawn from different sources allows surveys to be much richer and more useful,” she says.

In her current role with RMS, overseeing surveying projects in the Sydney region, much of her work focuses on research and development of better, safer and more accurate outputs. Take as an example mobile laser scanning which, as the name suggests, consists of a device mounted on a vehicle which then moves through the area to be surveyed. The device takes images at up to two million pixels per second, which is an astounding feat and allows surveys to be extremely accurate, often down to ten millimetres. Because of the accuracies involved – projects which may ordinarily have taken over 12 months can now be fully completed in a third of the time.

Two years ago, Narelle was part of the survey team for Stage 1 of the WestConnex Project. She had seven different companies and government agencies working on the survey, covering a massive area in a very short timeframe. The team won a 2014 NSW Excellence in Surveying and Spatial Information award for the innovation and efficiency they demonstrated.

“The West Connex Stage 1 development project provided an opportunity for a stronger engagement with private sector industry,” she says. “It stands as a test case to show how this type of co-operation can work extremely well in the future for increasing public infrastructure.”

Narelle wears a second surveying ‘hat’. She is working with two professional bodies (ISNSW and SMIC – of which she is chair) on the NSW Surveying Task Force to encourage more graduates to consider a career in surveying – without whom the construction industry could very well grind to a halt.

“There is a severe shortage of Registered Land Surveyors in Australia so we’re working to lifting the profile of the profession,” she said. “With technology changing so rapidly, we really don’t know what will be happening in five or ten years, what people will need and how data and information will be used. It’s an open book, which makes this profession extremely exciting.”
Lisa Thom
**BE Civil with Architecture, 2013**
Structural Engineer, Lend Lease Development

When Lisa Thom completed her Civil Engineering with Architecture degree at UNSW in 2013 she breathed a sigh of relief, but she certainly wasn’t prepared for the whirlwind of opportunities to come. Her undergraduate thesis, on the use of cross laminated timber (CLT) in building and construction, won her the School of Civil and Environmental Engineering prize for Civil with Architecture. It also caught the interest of the Timber industry of Australia who sponsored her to travel to the World Conference for Timber Engineering in Canada earlier this year. As a direct result of her thesis, she received a call from a senior engineer at Lend Lease asking if she wanted to apply for a job in their development arm, working as a Structural Engineer on Timber Products – she agreed. Lend Lease’s interest in timber began during the planning phase of the Docklands area in Melbourne. The traditional heavy weight construction materials required expensive groundworks due to the soil conditions so Lend Lease engineers sought an alternative – timber.

Massive timber has been used successfully in construction for over 30 years across Europe. It is lighter, and its construction time is quicker. What’s more, it is environmentally, economically and socially sustainable – a natural product that comes from plantations, stores carbon and can be recycled at the end of its useful life. Lisa feels passionately that timber technology has limitless potential in this country. She was encouraged recently to present to the Institute of Structural Engineers in Melbourne about the benefits of using CLT in building - the presentation was very well received.

Using timber brings a whole new set of parameters to the initial project phase. The design needs to be nailed down much earlier in the process because of the prefabrication process. The design basics for timber differ so it is best if the developers commit to using timber right from the start which puts more pressure on the design team up front. However, this in turn can dramatically reduce risks (and additional cost) in the later stages of construction.

At present there are only two CLT buildings in Australia, both constructed by Lend Lease. But, once the local industry takes off, as Lisa is sure it will, she hopes to see more and more massive timber buildings in Australia.

Dr Yen Lei Voo
**BE Hons Civil 2001**
**PhD ‘04**

Alumnus Dr Yen Lei Voo continues his innovative trailblazing path in the design and building of ultra high performance concrete (UHPC) bridges. His research at the School into high-performance cementitious materials technology has led to a very successful cutting edge research based practice. His work with the Malaysian government rural development program has delivered bridges in areas where sourcing of materials, site access and conventional construction methods pose major challenges. UHPC is an advanced cementitious-based composite material - commercially available in many countries – which if more widely adopted would significantly reduce the construction industry’s carbon footprint. Research has shown how a UHPC bridge construction has several advantages; including immediate and life-cycle cost savings; low maintenance of UHPC components due to good durability; reduced overall construction time and consumption of raw materials; lighter superstructure dead weight permits lighter/smaller substructure foundations, and shorter-duration temporary work.

The picture above shows segments of an Ultra High Performance Fibre Reinforced Concrete (UHPFRC) bridge of precast-prestressed segmental box girder construction. When complete, the bridge will span 100 metres across the Perak River, Malaysia. The strength of the concrete is in excess of 150 MPa.
ALUMNI AWARDS AND REUNIONS

Diamond Jubilee Celebrations

In April the School hosted a lunch for the Class of ’54 – with the aid of the indefatigable Trevor Newton, also of the UNSW Pioneers Group. Chancellor David Gonski AC came and congratulated the alumni on their loyalty and affection for the university that they had helped make great. ‘Engineers are good sorts.’ Gonski (BCom/LLB UNSW) said, ‘and we know what you think of lawyers – some of you have already reminded me.’

If you have an alumni golden or silver jubilee reunion planned, please contact the School to see how we can assist.

Alumni Glitterati

In the Australia Day Awards 2014, alumnus John ‘IronMan’ Holt - BSurv ’75 was awarded the Order of Australia Medal for his ‘service to sport, administration and competition in surf lifesaving and triathalon’.

In the Queen’s Birthday Honours 2014, Col Nicholson, MEngSc’84 and valued member of the School’s Industry Advisory Committee from 2006 – 2013, was awarded the Public Service medal for outstanding public service to the quality of water and wastewater services across Sydney, the Blue Mountains and the Illawarra region.

At the Sydney Engineers Australia Excellence Awards Dr Robert Care (BE Hons ’73, PhD ’78) was awarded the SEEA Professional engineer of the year award.

Congratulations to our four alumni listed in Engineers Australia’s 2014 Top 100 Most Influential Engineers - Grant King BE (Civil) ’77, Managing Director, Origin Energy; Bruce Munro, BE (Civil) Hons ’75, Managing Director, Thiess; David Stewart MEngSc ’99, Secretary, Transport for NSW, Sydney and member of the School’s Industry Advisory Committee; and Prof Elizabeth Taylor BE (Civil) ’78, Chair, RedR Australia and RedR International.

Several alumni from UNSW were also honoured in the recent 2014 NSW Excellence in Surveying and Spatial Information (EISSI) Awards. Professional of the Year Award went to Robert Harrison, (UNSW BSurv’73) - Principal at Harrison, Friedmann and Associates. Narelle Underwood (UNSW BE Hons, ’09) and Michael Dunn (UNSW BSurv’91), won the Infrastructure and Construction category award for their work for RMS in managing the survey for WestConnex – Stage 1. Tasy Moraitis (UNSW BSurv ’86) from Denny Linker & Co won the award for Sustainable Development for his work on Central Park Broadway.

Stay in Touch

The CVEN Alumni Registration is a contact point between the School and our graduate community. We would like to keep in touch with our graduates so that you can be kept informed of key developments in the School. School Alumni can perform an essential on-going contribution to the School in the following ways:

- Feedback on School direction and areas for improvement.
- Participate in School programs and processes including curriculum review, student mentoring, raising participation rates of women in the BE programs, fundraising, supporting industrial training, and other relevant activities.
- Attend research or industry seminars.

Please let us know where you are by filling out the online Registration form.
http://www.civeng.unsw.edu.au/information-for/alumni-industry/alumni

You will receive a copy of the CVEN Newsletters and our Annual Report.

Class of ’54 – Diamond Jubilee Celebrations April 2014
From L-R: Ron Fletcher, Ken Griffiths, Les Bagust, Alan Wells, Bruce Jenkins, Chancellor Gonski AC, Colin Dudgeon, Trevor Newton, Sydney Cashman (slightly obscured), Bill Copeland, Head of School Prof Stephen Foster.
Research Leaders

L-R: Some of our ARC Grant Winners - Chongmin Song, Sawekchai Tangaramvong, Vinayak Dixit, Xiaomin Li, Kristen Splinter, Mark Bradford, Hamid Valipour, Stephen Foster, Arman Khoshghalb, Samsung Lim, Fiona Johnson, Adrian Russell, Ian Turner, Chris Blenkinsopp. Absent: Lauren Gardner, Nasser Khalili, David Waite, Travis Waller, Gaofeng Zhao

The School remains at the top of the research game having won 9 Australian Research Council (ARC) grants in the latest round – 7 Discovery, 1 Early Career (DECRA) and 1 LIEF (Linkage Infrastructure, Equipment and Facilities) grant. These wonderful results make the School one of the highest UNSW achievers in amount of grant funds – to the value of $3.5M. Overall, UNSW researchers won the highest amount ARC funding in Australia – ‘a testament, said Deputy Vice-Chancellor (Research) Prof Travis Waller, ‘to the importance and impact of the work we are doing.’

School ARC
Discovery research projects include
Scientia Prof Mark Bradford’s investigation of the capacity of high-strength steel beams, with a view to contributing to the production of an advanced design standard ($664K); Prof Stephen Foster & Dr Hamid Valipour’s research into behaviour and robustness of steel fibre reinforced concrete (SFRC) moment hinges ($266K); and A/Prof Adrian Russell’s research (with Prof David Muir Wood from University of Dundee) into how fundamental microstructural (particle and pore) properties governing erosion have the potential to destroy infrastructure ($326K).

Prof Chongmin Song, Em Prof Francis Tin-Loi, and Dr Sawekchai Tangaramvong aim to develop an automatic numerical simulation approach for the safety assessment of engineering structures in three dimensions ($385K); Prof Ian Turner leads a team which aims to deliver the best possible solution to storm coastal erosion prediction ($423K), while Scientia Prof David Waite’s research into the electron transfer (redox) properties of terrestrially and microbially-derived natural organic matter (NOM) will provide new insights to factors influencing the quality of our natural aqueous resources ($515K).

Prof S Travis Waller will address some of the limitations of dynamic transport network modelling in the planning process particularly related to traffic uncertainty, driver adaptivity and information-provision ($275K).

Scientia Prof David Waite is Chair of the International Council of IAP (Interfaces against Pollution). The 2014 IAP Conference - held in the Netherlands - was titled “Interfaces in Water and Environmental Science.”

Global Research Leadership

Associate Professor Ron Cox
is keynote speaker at Engineer Australia’s national conference in November 2014 ‘Practical Response to Climate Change.’ He will be speaking on coastal impacts and adaptation.

Professor Stephen Foster
was Keynote speaker at the 12th International Conference on Concrete Engineering & Technology (CONCET 2014) “Concrete Innovations and its Advanced Development” held in Malaysia. Stephen’s presentation was ‘Steel Fibre Reinforced and Ultra-High Performance Concrete - From Research to Practice.’

Emeritus Professor Ian Gilbert’s latest textbook for students and practitioners, ‘Structural Analysis: Principles, Methods and Modelling’ co-authored with School’s PhD alumnus Gianluca Ranzi, has just been published by CRC Press.

Professor Nasser Khalili was awarded the Chandra S Desai Medal by the International Association for Computer Methods and Advances in Geomechanics (IACMAG). The award honours individuals who have made seminal contributions to research in geomechanics.

Professor Chris Rizos
was an invited keynote presenter at three international conferences, including a presentation titled ‘Opportunities & Challenges for the Surveying Industry in a Multi-System GNSS World’ at the XXVth Congress of the International Federation of Surveyors (FIG) in Kuala Lumpur in June.

Scientia Professor David Waite
On 9 October, Dr Vinayak Dixit, Dr Lauren Gardener, Dr Fiona Johnson, A/Prof Samsung Lim, Prof Travis Waller and Dr Gaofeng Zhao were part of a LIEF grant winning team which will develop Australia’s most advanced earthquake shaking table to investigate soil-structure interactions ($320K).

Dr Xiaomin Li won a highly sought after DECRA for her work in the development of bioremediation strategies for contaminated sites ($321K).

Six academic staff were also involved in successful projects administered by other organisations. We congratulate Dr Vinayak Dixit, Dr Lauren Gardener, Dr Fiona Johnson, A/Prof Samsung Lim, Prof Travis Waller and Dr Gaofeng Zhao.

For more in-depth research stories please see: http://issuu.com/unsw_p3design/docs/cven_research_2014/1