

IN THIS ISSUE ... *we announce the commissioning of new research to identify how undergraduate engineering programmes can be enhanced, and the launch of the Make the World campaign.*

MAKE THE WORLD LAUNCHED ON 1 MAY and I'm delighted by the reception to the campaign. I've been interviewed by the Sunday Star Times and NewstalkZB and have had the opportunity to provide the context for the campaign. Billboards and posters are appearing on walls in cities around the country and the images are striking. As hooks to encourage people to find out more, I think they'll do the job.

Later this month, the Engineering E2E Steering Group meets with members of the Productivity Commission to discuss our programme and approach. We believe that the model of government-industry engagement that Engineering E2E offers is a useful one which has proved effective over the past two years.

Applications for the EE2E Secondary-Tertiary Pathways Project close on the 27th of this month. This initiative supports secondary schools and tertiary institutions to work together to deliver programmes to offer pathways into tertiary engineering study. For more information contact engineeringe2e@ipenz.org.nz

Another key activity in the Engineering E2E programme of work is underway – read about our project to develop guidelines for enhancing the curriculum, learning outcomes and engineering assessment in ITPs and universities in this issue.

SIR NEVILLE JORDAN
Chair, Engineering E2E Steering Group

Initiatives undertaken through the Engineering E2E programme contribute directly to the achievement of the Government's Business Growth Agenda priority of building a more productive and competitive economy.

Research on enhancing engineering programmes

Professor Scott and Otago Polytechnic have been commissioned to provide guidelines for enhancing content, delivery and assessment of undergraduate engineering programmes.

This research is in response to recommendations from participants at the 'Engineering E2E Talking with Employers' workshop in June 2015, who saw the need for an engineering graduate study based on Professor Geoff Scott's Professional and Graduate Capability Framework conducted in the New Zealand context. It will ensure that a local professional and graduate capability framework is developed and tested in a comprehensive manner, based on research rather than anecdote.

(continues overleaf)



MAKE THE WORLD ROLLS OUT OVER THE NEXT 10 MONTHS, SO GET INVOLVED

- If you're an NZDE OR BENGTECH GRADUATE with a good story to tell, we'd like to share it.
- EMPLOYERS might hold open days/site visits for the public, or collaborate with other companies to run a local promotion. A good example of employer engagement is the recent Wellington pilot organised by engineers from four New Zealand companies. The initiative comprises three one-day sessions for 300 Year 11-13 students and a public open day, planned for August 2016.
- EDUCATORS could highlight the great things their NZDE/ BEngTech students are doing, to show the public and employers what's involved in these qualifications.

Visit maketheworld.nz or email hello@maketheworld.nz

It is expected that the framework will:

- Enable the Engineering profession in New Zealand to check alignment with overseas developments when comparing domestic skill needs with international standards
- Enable tertiary education organisations (TEOs) to validate the relevance of their programmes – for example, the results could be compared with those produced in parallel research of engineering employers and professional bodies (such as by Western Sydney University)
- Enable TEOs to improve the content, delivery, support, and assessment of undergraduate (Levels 5-8 on the NZQF) programmes in engineering
- Help improve the engagement of new students in study, by emphasising what employers have identified as key attributes and identifying how a student's engineering studies can develop these attributes
- Help improve TEOs' relationships with the wider engineering profession by better understanding what industry wants from graduates.

The research will involve engagement with institutes of technology and polytechnics (ITPs) and universities. A project steering group will be assembled from employer representatives and engineering deans from two university engineering schools and two ITP engineering schools, and other appropriate organisations.



FEATURED CASE STUDY

A WEEK OF ENGINEERING - JOINING E2E'S PUBLIC AWARENESS CAMPAIGN

A small group of Wellington engineers agreed that promoting engineering can be done more effectively if companies collaborate rather than go it alone – so, they're linking their new initiative to Engineering E2E's public awareness campaign.

See: http://engineeringe2e.org.nz/Employers/Case_study.cfm?ID=46

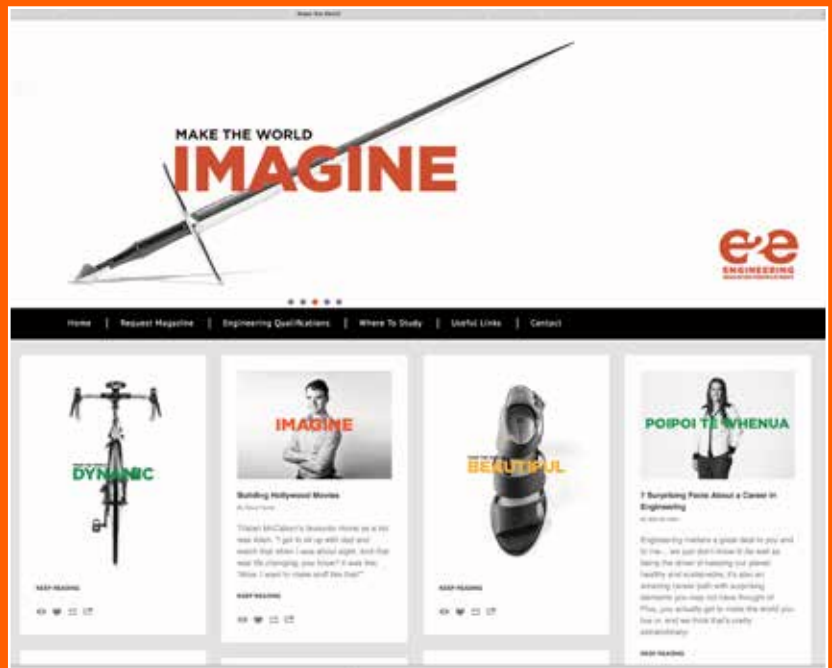
The project's report will include: a comparative analysis with similar Australian research; guidelines for enhancing the curriculum, learning outcomes and engineering assessment in ITPs and universities in New Zealand; and real-world scenarios for use in learning and assessment.

Project progress reports and the final report will be posted on our website – see www.engineeringe2e.org.nz/Progress

MAKE THE WORLD LAUNCHED!

The Make the World campaign took off on 1 May with the launch of the maketheworld.nz website, videos, magazine articles, blogs, billboards, street posters and press releases from the Minister and TEC.

The campaign immediately received a boost with an excellent response from the media, including a *Sunday Star Times* article and radio and television interviews.



IF YOU HAVE ANY ENQUIRIES, PLEASE CONTACT US: ENGINEERING E2E PROGRAMME TEAM
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