

IN THIS ISSUE . . . we look at the key activities planned for 2017 and the November stats for our Make the World campaign, and we invite you to share ideas at the nation-wide Careers NZ Workshops.

FROM THE CHAIR...

FIRST OF ALL, HAPPY NEW YEAR to all those involved in engineering education and employment throughout the country.

As the Engineering e2e programme enters its third year, the Steering Group's focus shifts to our Employer Engagement work stream. Work will begin on scoping an employer resource portal this month and proposals for a number of projects have been received.

This newsletter also gives an overview of some of the other key activities we have planned for 2017, including research into collaboration between tertiary institutions, what makes a successful engineering education hub and sponsored degrees/degree apprenticeships, and the upcoming updates from the Secondary-Tertiary Pathways Projects.

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.

Key activities for 2017

This year we begin investigating the possibilities for an employer resource portal and continue to explore the options for sponsored degrees.

EMPLOYER ENGAGEMENT WORK STREAM/RESOURCE PORTAL

The Engineering e2e Steering Group is exploring the development of a resource portal that gives employers a single access point for the latest tools to recruit, retain and grow leaders in engineering. The resource will have a particular emphasis on supporting the development of a diverse engineering workforce.

A portal would link employers to a range of research, examples of good practice and other materials (including tools) from a large number of sources. It is hoped that it would also provide some form of 'how to' guide and examples of what other employers have done. The first stage in the portal development began this month with a scoping project, in which



MAKE THE WORLD – NOVEMBER STATS

DURING NOVEMBER 2016, the maketheworld.nz website was visited 1,001 times, and 32,956 times since 1 May. Over one third of visitors for the month were returning, an indication that the campaign is driving ongoing consideration for a career in engineering.

Fisher & Paykel Healthcare's Chris Montague's YouTube video was viewed 32,000 times, bringing the total views to almost 164,000. Average view duration is 1:31 or 75% completion, an excellent

result! Electrical Engineer Levi Martin's double-page article and full-page ad featured in SPASIFIK issue 68. SPASIFIK has also uploaded the article to its website, and dispersed it through its social networks.

In the lead-up to the first semester of 2017, paid Google search terms were widened to include more 'study' and 'engineering' terms, and a major media push was made to coincide with the January release of New Zealand's NCEA results.

employers are being consulted on what tools they want and how they wish access to them.

MAKING TERTIARY STUDIES IN ENGINEERING MORE RELEVANT

The Tertiary Education Commission (TEC) has received a proposal from Otago Polytechnic to build on their 2016 research *Making Tertiary Studies In Engineering More Relevant*. This project would support collaboration between institutions to ensure best practice for all graduate engineers. The project team would like to implement a number of recommendations identified in the 2016 report.

A SUCCESSFUL ENGINEERING EDUCATION HUB

In November 2015, Massey University School of Engineering and Advanced Technology (SEAT) completed the report *Creating Engineers: Climbing the Educational Staircase*, which examined staircasing and pathways as viable strategies for progression into and within engineering careers. This report built on earlier work on degree apprenticeships for increasing the number of Level 6 and 7 engineering graduates in New Zealand (Goodyer & Frater, 2015).

The first recommendation from the *Creating Engineers* report was to form regional engineering education hubs including representatives from primary (and intermediate) schools, secondary schools, polytechnics, university and employers. The Engineering e2e Steering Group has invited Massey University SEAT to submit a proposal to identify key contributors to the successful establishment of regional engineering education hubs in New Zealand.

SPONSORED DEGREES

In June 2015, TEC contracted Associate Professor Jane Goodyer to advise on the viability of apprenticeship models to educate degree-level engineering technologists. The report endorsed apprenticeships as a viable learning model for educating engineering technologists and identified the need for effective collaboration between employers and educators at the design and planning stage, with employers taking the lead by providing outcome-based and

occupation-driven apprentice standards. It concluded that a similar model to the UK's Trailblazer projects should be implemented in New Zealand.

In July 2016, TEC commissioned a follow-up report to investigate the effectiveness of the Trailblazer projects in their first year of operation. This study focused on one of the early adopters, Manchester Metropolitan University, and concluded that the Trailblazer approach works, enabling employer engagement and resulting in attracting capable young people to such courses.

The Engineering e2e Steering Group is keen to continue exploring sponsored degrees/degree apprenticeships and has requested a proposal from Massey University.

SECONDARY-TERTIARY PATHWAYS PROJECTS

The Secondary-Tertiary Pathways Projects are underway around the country. As part of the engineering educators' annual forum at WelTec in February, the project managers will meet to share their plans and discuss how the projects will be evaluated. Presentations about each Secondary-Tertiary Pathways Projects will be made to the forum participants at a plenary session on the second day.

Engineering e2e will follow the progress of the Secondary-Tertiary Pathways Projects and publish updates on our website during the year.

CAREERS NZ WORKSHOPS

TEC wants YOUR views on how to improve careers services in New Zealand

In light of the Government proposal that Careers New Zealand is integrated into TEC in 2017, TEC is looking at how they can improve careers services in New Zealand. Your views are key to helping them do this.

To find out what you think, TEC is are hosting a number of workshops across New Zealand to share understandings of the opportunities and challenges that the future might bring for careers services. They are particularly interested in how to strengthen links between education and employment and ensure that learners, educators and employers get the information they need. TEC also wants to know what else you consider critical to the successful provision of careers services in New Zealand.

If you are interested in attending or want more information, please contact Olivia Sumich, tel **04 462 5395**, email olivia.sumich@tec.govt.nz

WORKSHOPS

Wellington	9 February
Christchurch	14 February
Invercargill	17 February
New Plymouth	21 February
Auckland	23 February
Gisborne	28 February
Dunedin	2 March