

IN THIS ISSUE . . . *we ask Secondary-Tertiary Pathways Project managers for a quick comment on their projects, give highlights of the latest Make the World stats, and feature Hutt City Council's highly successful STEMM Festival.*

#### FROM THE CHAIR...

OVER THE PAST 18 MONTHS, *two research reports from Associate Professor Jane Goodyer have supported sponsored degrees as a learning model for educating engineering technologists. A key finding of her reports has been the need for collaboration between employers and educators at the design and planning stage. Her research was clear: employers need to be in the driving seat to specify standards that are results-based and occupation-driven.*

*In January, the Engineering e2e Steering Group recommended that the Tertiary Education Commission (TEC) fund a pilot sponsored degree programme. The sponsored degree will be a work-based degree programme designed by employers and ITPs to fill a skills gap. It will integrate academic learning and on-the-job practical training. This month, TEC has agreed to fund a project which will define a standard for a specific occupation.*

*Another piece of work the Steering Group has recommended to TEC is an investigation into Engineering Education Regional Hubs. It would begin with a literature review of education hub models, including those currently running in Ireland. Step 2 would be to engage stakeholders to develop a vision and direction for engineering education hubs. An outcome of the investigation will be a set of factors to consider when establishing a hub.*

*Along with this month's newsletter, we've attached a copy of an update on our work. It's something we're sharing with employer groups as our engagement work stream gets into gear. Over the next few weeks, I'll be meeting with CEs and presidents of engineering professional bodies to hear their views on Engineering e2e and to find out how they might have greater involvement with us to help achieve the Government goal of 500 extra engineering graduates per annum.*

**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.**

## Secondary-Tertiary Pathways Project managers share their enthusiasm



There was lots of enthusiasm at the Secondary-Tertiary Pathways Project (STPP) meeting this month.

Project managers discussed their programmes, the importance of collaborating with secondary school teachers, and making links with industry. We asked why they're involved in this initiative.

**Melissa Kay** (WITT) previously worked in a communications role in the petrochemical industry and is currently chairperson of a local secondary school board. The project, she says, is important for helping to alleviate Taranaki's shortage of engineers, "and is a pathway to providing more high-level qualifications for students."

**Johnny Gordon** (Wintec) ran Gateway and other career-focused programmes at a secondary school. "I've seen the void for those who haven't followed the right curriculum pathway, that middle bunch of students who aren't going to university or into the trades."

**Mirko Wojnowski** (NorthTec) taught Foundation Studies at the University of Auckland before moving to Northland. He says the programme is an amazing



## FEATURED CASE STUDY

### HUTT STEMM FESTIVAL: HELPING RAISE AWARENESS OF ENGINEERING

Hutt City Council launched the inaugural Hutt STEMM (Science, Technology, Engineering, Mathematics and Manufacturing) Festival in 2015. It aimed to highlight the city as a science and technology hub, celebrate innovative and high-tech manufacturing in the area, and raise awareness of STEMM careers. The festival was a great success and is now an annual event.

“Every year we reach more people and highlight the opportunities within engineering and science in the region,” says Hutt City Council STEMM Sector Development Manager Irwin Munro, “The festival is a great opportunity for students and parents to get a thorough understanding of the engineering training available and the jobs they can do in the greater Wellington region.”

After 5,000 people took part in an event or activity during the 2016 Festival, the organisers are looking at making it even bigger, better and longer this year, when it will run from 6-21 May .

See: [www.engineeringe2e.org.nz/Employers/Case\\_study.cfm?ID=61](http://www.engineeringe2e.org.nz/Employers/Case_study.cfm?ID=61)

opportunity to show students and parents the benefits of studying STEM subjects. “It opens doors; students won’t be restricted to engineering – they’ll have many careers available to them.”

**Ellimay Hendricks** (Unitec) was Head of Science at a South Auckland secondary school and involved in setting up a Health Science Academy for students. “It’s about getting buy-in from teachers, making the learning relevant to the school curriculum, and having teachers and tutors learning alongside students.”

**John Findlay** (Otago Polytechnic) came into engineering via the NZCE and worked as a design engineer before moving into tertiary education. John was involved in the 2010 National Engineering Education Plan which informed the establishment of Engineering e2e and the 2016 STPP pilot programme. He explained that his institution’s programme focuses on research and developing resources to help teachers deliver the curriculum in an engineering context.

**Michael Edmonds** (Ara) is HOD Engineering & Architectural Studies and is passionate about supporting students to realise the many STEM-related careers available to them. Ara’s electrotechnology programme focuses on giving students a positive experience of electrical engineering while gaining NCEA unit standard credits and visiting relevant industries in Christchurch.



#### A FEW HIGHLIGHTS FROM JANUARY INCLUDE:

- The website was visited 5,580 times during January, of which 89% were new visitors
- There were a total of 5.5 million page views throughout the month
- Stuff Homepage Takeover delivered a total of 3,071 clicks which is 155% above the average monthly performance over the past six months
- Chris and Sapoa’s videos were viewed 320,000 times
- There were 431 magazine requests

IF YOU HAVE ANY ENQUIRIES, PLEASE CONTACT US: ENGINEERING E2E PROGRAMME TEAM  
Tertiary Education Commission Te Amorangi Mātauranga Matua  
Phone 04 462 5256 Email [engineeringe2e@tec.govt.nz](mailto:engineeringe2e@tec.govt.nz)  
[www.engineeringe2e.org.nz](http://www.engineeringe2e.org.nz)