

IN THIS ISSUE . . . *we cover the Make the World campaign's midway evaluation and its latest video profile, the ITP consortium's STPP initiative and ask for feedback via our website and newsletter survey*

FROM THE CHAIR...

Make the World campaign working to change public perceptions of engineering

LAST WEEK I WROTE TO THE MINISTER *to provide him with early evaluation results from Make the World. The campaign is now about halfway through, and evaluation shows a strong connection with the intended audience, particularly Māori, Pasifika and women. Branded content, including magazine articles, video and a Tumblr site, has contributed significantly to this engagement. The simple message of 'Engineers Make the World' is understood by just about everyone who recalls the campaign.*

An important gain has been made in career consideration, with engineering rising from a tenth place ranking to sixth over the campaign period to date. This represents a significant shift in the perceptions of the benefits of study and work in the engineering fields among students and their parents.

Our evaluation highlights the need to promote the value of the ITP sector amongst key stakeholders and increase understanding about what a modern institute of technology/polytechnic represents. Improving the profile and standing of ITPs is vital to providing a good match of skills to available employment. The Engineering E2E Steering Group recognises the significant importance of improving perceptions of the ITP sector – to provide a result beyond that of increasing enrolments in engineering at Levels 6 and 7.

ITPs play a vital role in our education landscape. They deliver core qualifications that are relevant to the labour market and are able to deliver foundational education in a context relevant to learners.

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.

ITP consortium set to support STPP initiative

Funding has been granted to six ITPs for the Secondary-Tertiary Pathways Project (STPP) applications they presented in May.

Though funded individually, the ITPs – Otago Polytechnic, Ara, Western Institute of Technology, Wintec, Waiariki Bay of Plenty Polytechnic, Unitec and NorthTec – are working together on a nationally coordinated capability programme across consortium members, secondary school and employer partners.

The programme caters for the individual regional needs of each ITP and also includes subject matter expert development in schools and ITPs. A commonly used Quality Management System will ensure best-practice self-assessment, which will be shared and used to develop all STPP partner programmes in the network.

[more...](#)



CHECK OUT THE LATEST MAKE THE WORLD VIDEO PROFILE:

BEngTech graduate CHRIS MONTAGUE is a Process Development Engineer for Fisher & Paykel Healthcare who helped develop the Junior Cannula – a revolutionary system for providing simple, effective delivery of oxygen therapy to infants in respiratory distress.



PLEASE GIVE US YOUR FEEDBACK ON THE ENGINEERING E2E WEBSITE & NEWSLETTER

A development team will be established to bring together the best expertise from across the network of providers, including advice and contribution from employers, to ensure continuity and continuous development of the initiative.

The initiative takes a whole-of-education-system perspective, ensuring engagement and collaboration across the primary, secondary and tertiary sectors together with iwi, employers and community agencies.

“Each member ITP brings with them a proven track record of partnership engagement with schools, iwi, employers and community agencies in existing secondary/tertiary partnerships, trades academies, Māori and Pasifika trades training, and other programmes, and experience in the development and implementation of pastoral care and teaching methodology for different learner groups,” says consortium spokesperson Warwick Pitts, Director – Products and Planning at Wintec.

“While the focus is on establishing a national STPP framework, we feel that one of the strengths of our initiative is that it is based on the individual proposals submitted by each ITP in response to their unique set of regional environments and considerations.”

Consortium partners will use an agreed quality management system across the STPP programmes through a group similar to the model currently being run by BEngTech partnership institutions.

A lead educator will be appointed who will establish a hub for each region’s network of secondary teachers. A network of tertiary educators will also be formed to share best-practice examples of project-based learning, contextualisation of curriculum, pastoral care and models of engagement. Group sessions run by the lead educator will coach the teams of cross-disciplinary educators in pedagogy and pedagogical content knowledge (PCK) in an engineering context.

As few secondary teachers have an engineering background, ITPs will work alongside partner schools to develop PCK in fields as varied as Digital Technologies, Physics and the Arts. Establishing the necessary PCK will be done using shared expertise across the network, including advice and direction from engineering employers. A needs analysis will be

WE HAVE CREATED A SHORT SURVEY to find out how you feel about the effectiveness of the Engineering E2e website – engineeringe2e.org.nz – and this newsletter.

We are very keen to hear what you have to say and where you think we could be doing better.

• surveymonkey.com/r/7ZDYD5V

done and IP resources identified, which can be shared regionally across consortium partners.

The consortium will also provide guided models for teachers to use with students as pathways to employment in the engineering sector. This will link to a national network of employers and role models, building capacity on both technical and academic ‘ladders’.

“The very nature of engineering as a ‘creative problem-solving profession’ suggests that the basis of assessment opportunities should lie within the same realm of experience,” says Warwick Pitts. “It is our belief that success lies in allowing learners to experience engineering as part of their core curriculum learning, through its contextualisation in Maths, Physics and other domains, such as creative industries.”

“We will use real-world engineering scenarios, even local problems, on which to base our problem-solving, solution-focused programmes. This IP will be shared as widely as possible.”

Find out more...

To find out more about this initiative, please email engineeringe2e@tec.govt.nz

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