

Provisional Programme

Tuesday Day 1				
10.00 - 11.00	Conference Registration			
11.00 - 11.15	Welcome address – Vice-Chancellor Prof. Julia King, Aston University			
11.15 – 11.50	Key note: Euan Lindsay			
12.00 – 13.00	Parallel 1 First Year Students and Progression 1	Parallel 2 Learning Technologies 1	Parallel 3 Supporting Diversity	
	<p>5: Thomas Goldfinch and Anne Gardner. The wheel has already been invented: facilitating students' use of existing mechanics resources</p> <p>47: Glynis Perkin, Sarah Bamforth and Carol Robinson. Progression of Engineering Students who attended a Pre-session Residential Summer School</p> <p>105: Charles McCartan, Paul Hermon and Geoff Cunningham. A Validated Approach to Teaching Engineering Mathematics</p>	<p>111: Diane Rossiter, Stephen Beck, Martine Delbauve, Marian Hogg and Geoffrey Priestman. Improving Engagement and Learning Experience for Students using Lab-in-a-Box Concept</p> <p>99: Kay Bond, Carol Eastwick, John Prentice, Mike Johnson and Arthur Jones. Use of e-learning to encourage engagement and depth of understanding across engineering science and design within the first year of an engineering degree</p> <p>54: Elizabeth Smith. Online assessment is not always quick and easy</p>	<p>35: Bland Tomkinson. Engineering the curriculum</p> <p>104: Peter Mills and Panagiotis Georgakis. Analysis of a diagnostic and support programme for improved learning of Civil Engineering students</p> <p>77: Christopher J. M. Smith, Owen Richards, Nerea Etura Luque and Elizabeth Miles. Can a story deepen comprehension, engagement and analysis skills of undergraduate engineering strategy by students with diverse backgrounds?</p>	
13.00 – 14.00	Lunch			
14.00 – 15.30	<p>Workshop 1</p> <p>42: Norman Seward, Gareth Williams and Keith Jones. Bridge to Schools</p>	<p>Workshop 2</p> <p>20: Laurence Legg. The role of manual simulation/games in learning</p>	<p>Workshop 3</p> <p>82: Ivan Moore and Mike Bramhall. Enquiry Based Learning, what's that then? How to inspire your students, develop their professional skills and enjoy yourself</p>	Engineering Education Research SIG
15.30 – 16.00	Afternoon tea			

16.00 – 17.30	Parallel 4 Enhancing the student learning experience	Parallel 5 Learning Technologies 2	Parallel 6 Research Discussion Papers	
	<p>18: Tom Joyce. Non-traditional subjects taught to engineers: a case study of teaching anatomy</p> <p>62: Sarah Green and Erik Meyer. Motivation of engineering students – considerations for programme design</p> <p>48: Jenna Tudor and Roger Penlington. Perceptions and their Influences on Approaches to Learning</p> <p>43: Frankie Stewart and Colin Chisholm. Academic Success of First Year Engineering Students: Emotional Intelligence a Predictor?</p>	<p>61: Jayaraman Ramachandran and Olivier Haas. Improving the Learning Experience for the First Year Engineering Students using Technology Enabled Activity Led Learning</p> <p>94: Kate Sugden, David Webb and Richard Reeves. Laboratory focussed learning of core electronic engineering concepts in the first year of an honours degree programme</p> <p>38: Anthony Bateson, Nathan Brown and Antony Wilkinson. Flowchart driven Robot to promote Educational Development (FRED)</p> <p>22: Jonathan Adams, Stefan Kaczmarczyk, Phil Picton and Peter Demian. Problem Solving and Creativity in Engineering: conclusions of a three year project involving Reusable Learning Objects and Robots</p>	<p>78: Kath Clay. Engaging and retaining distance learning engineering students: the development of effective engineering communities</p> <p>124. Anne Gardner and Keith Willey. Does pre-feedback self reflection improve student engagement, learning outcomes and tutor facilitation of group feedback sessions?</p> <p>75: Junxia Hou, Catherine Montgomery, Peter Harrington and Liz McDowell. The Impact of a Large Cohort of Chinese Students on the Delivery of an Engineering Degree in the UK</p>	
20.00	Conference Dinner			

Wednesday Day 2

07.30 – 08.30	Conference Run			
09.15 – 09.50	Keynote: Industry			
10.00 – 11.00	Parallel 1 Design and Activity based learning	Parallel 2 Project Based Learning	Parallel 3 Education for Sustainable Development	
	<p>11: Nigel Poole, Robert Jinks, Stephen Bate, Mark Oliver and Christopher Bland. An activity led learning experience for first year electronic engineers</p> <p>96: Paul Hermon, Charles McCartan and Geoff Cunningham. Group Design-Build-Test Projects as the Core of an Integrated Curriculum in Product Design and Development</p> <p>117: John Swagten, Faas Moonen and Ivette Wennekes. The proof of the pudding is in the eating</p>	<p>118: Martin Pitt. Internationalization of Undergraduate Group Projects</p> <p>109: Ruth Graham and Edward Crawley. Making projects work: a review of transferable best practice approaches to engineering project-based learning in the UK</p> <p>40: Elena Rodriguez-Falcon and Alaster Yoxall. Service-learning experiences: a way forward in teaching engineering students?</p>	<p>39: Simon Steiner and Roger Penlington. Approaches to the embedding of sustainability into the engineering curriculum – where are we now, and how do engineers become global?</p> <p>84: Barbara Karleusa, Aleksandra Deluka-Tibljias, Suzana Ilic and Nevena Dragicevic. Developing awareness about sustainable development in Civil Engineering studies</p> <p>64: Tom Joyce, Iain Evans and Bill Pallan. An engineering design course: developments over five years emphasising hands-on learning and topics of sustainability</p>	
11.00 – 11.30	Coffee			
11.30 – 13.00	Parallel 4 Meeting the needs of Industry	Parallel 5 <i>Research Discussion Papers</i>	Parallel 6	
	<p>55: Carol Arlett, Fiona Lamb, Richard Dales, Liz Willis and Emma Hurdle. Meeting the needs of industry: the drivers for change in engineering education</p> <p>74: Graham Schleyer, Nicholas Underwood, Graham Dalzell and Nicola Stacey. Major Hazards Management – a finishing module for undergraduate engineers on how to manage risk</p> <p>19: David Dowling. The career aspirations of a cohort of Associate Degree students: Implications for the</p>	<p>101: Martin Holloway, Esat Alpay and Anthony Bull. A Quantitative Approach to Identifying Threshold Concepts in Engineering Education</p> <p>45: Peter Vivian. Towards developing a coherent notation in dynamics that will aid learners</p> <p>41: Susan Forder, Kieran McDonald, Gary Drabble and Jeremy Twyman. "How do we encourage the next generation of engineers?"</p>	<p>The Engineering Subject Centre Teaching Award Finalists 2010</p>	

	engineering educators and the profession 13: Andrea Duncan. Engineering your Workplace Advantage: Personal Development Planning resources for undergraduate engineers			
13.00 – 14.00	Lunch			
14.00 – 15.30	Workshop 1 71: Heather Hawthorne and Rachel Epton. Getting girls into engineering and women onto engineering degree courses	Workshop 2 69: Petter Matthews and Caroline Baillie. A Global Dimension for Engineering Education	Workshop 3 33: Michael Bramhall, Keith Radley and Ivan Moore. Inspirational teaching and learning: Developing and encouraging autonomous student learning	Network Meeting – NTFS and Teaching Awards Finalists
15.30 – 16.00	Afternoon Tea			
16.00 – 17.30	Parallel 7 Work-Based Learning	Parallel 8 Recruiting and Retaining Engineering Students	Parallel 9 Assessment and Feedback 1	
	36: Sarah Bamforth, Debra Lilley, Caroline Lowery and Adam Crawford. Credit bearing work-based learning: learning from other's practice  70: Deborah Seddon and Deborah Lock. Work-based MSc Professional Engineering: an evaluation so far  122: Fakhteh Soltani-Tafreshi, David Twigg and John Dickens. An effective practice in preparing students for workplace  57: Bill Glew and Ted Elsworth. Development of a work-based learning MSc course which incorporates the development and demonstration of professional engineering competence standards	60: Clare Gartland, Heather Hawthorne and Claire McLoughlin. Discourses, identities and learning: implications for the training of student ambassadors in engineering  97: Alison Halstead, Mike Jerome and Anne Wheeler. Inspiring young people to engage in engineering education: The Aston University Engineering Academy Birmingham  15: Robin Clark and Jane Andrews. Engaging Future Engineers: Pedagogy, Policy & Practice  66: Lorelle Burton and David Dowling The effects of gender on the success of a cohort of engineering students	29: Vasantha Aravinthan. Designing an Ideal Assessment Scheme for Dual Mode Delivery  26: Shun Ha Sylvia Wong. Motivating students to learn through good and helpful coursework feedback  53: Jane Horner. Developing a Departmental Strategy to Improve Student Feedback  52: Jenna Tudor and Noel Perera. Addressing the Learners' Needs for Specific and Constructive Feedback	
19.00 - 23.00	Gala Dinner			

Thursday Day 3

09.15 – 09.50	Keynote: Jack Lohman			
10.00 – 11.00	Parallel 1 Engineering Education – Perspectives from Students	Parallel 2 Learning Technologies 3	Parallel 3 Developing and motivating students	
	<p>103: Holly Fox, David Whitley, Julian Tenney and Carol Eastwick. Reflections on an integrated team approach to the creation of new e-learning resources for first year engineering students</p> <p>125. David Whitman and Dorothy Missingham. A Student's Perspective on the Effectiveness of Personality and Learning Tools in Engineering Education</p> <p>127. Amelia Greig, Dorothy Missingham and Colin Kestell. Engineering Humour: A student's perspective on the effective use of humour in engineering education</p>	<p>25: Fiona Saunders, Mark Jasper and Peter Whitton. Promoting collaborative learning in engineering management education through the use of wikis</p> <p>28: Ronald Sharma. Impact of using Moodle as an educational management tool to enhance learning for on campus and external mode electrical students at USQ</p> <p>81: Nicola Wilkinson, Adam Crawford and Fiona Lamb. How do we build sustainable e-learning tools to meet the needs of engineering educators?</p>	<p>128. Gary Codner. Leadership in a technological environment</p> <p>8: John Anthony Rossiter and Linda Gray. Supporting development of independent learning skills</p> <p>23: Roberto Ramirez Iniguez and Ursula Canton. Understanding Motivation in Large Groups of Engineering and Computing Students</p>	
11.00 – 11.30	Coffee			
11.30 – 13.00	Parallel 4 Assessment and Feedback 2	Parallel 5 First Year Students and Progression 2	Parallel 6 Research Discussion Papers	
	<p>9: John Rossiter, Anne Nortcliffe and Andrew Middleton. Using audio to support student learning</p> <p>90: Teresa McConlogue, Jens-Dominik Mueller and Julia Shelton. Challenges of developing engineering students' writing through peer assessment</p> <p>31: Vasantha Aravinthan and Thiru Aravinthan. Effectiveness of self-assessment quizzes as a learning tool</p>	<p>12: Euan Lindsay. The impact of task value upon stress and workload levels of first year engineering students</p> <p>121: Paul Green. Six-week introductory programme of activity led learning to improve student engagement and retention.</p> <p>46: Elizabeth Godfrey, Tim Aubrey and Robin King. Who leaves and who stays? Retention and attrition in Engineering Education</p> <p>14: Tom Joyce and Elena Rodriguez-Falcon. Evaluation of initiatives related</p>	<p>34: Darryl N. Williams and Michael A. Gottfriend. Who chooses the "E" in STEM?</p> <p>7: E. Ekevall, E. L. Hayward, G. Hayward, J. Magill, E. Spencer, G. MacBride, C. Bryce and B. Stimpson. Engineering – young people want to be informed</p> <p>16: Robin Clark and Jane Andrews. 'Catching Them Young': Inspiring Future Engineers, An Exploratory Study</p>	Web PA SIG

		to engagement and retention of first year mechanical engineering students at two Russell Group Universities		
13.00 – 14.00	Lunch			
14.00 – 15.30	Workshop 1 129. Alex Fenlon and Rob Pearce. OERP Workshop; Methods & Processes	Workshop 2 17: Robin Clark and Jane Andrews. Building Bridges for Future Sustainability? Breaching the research-teaching nexus in Engineering Education	Workshop 3 93: Glynis Perkin and Jan Robertson. Climbing up the Slippery Slope - helping first year engineers to master the peaks and troughs of differentiation	Web PA SIG
15.30 – 16.00	Afternoon Tea and Closing address			