

Conference Program

Sunday 4th December 2016	
5.30pm - 7.30pm	Pre-Conference Registration Conference Foyer
6.30pm - 8.30pm	Welcome Reception Charlie's Restaurant
Monday 5th December 2016	
Opens 8.15am	Conference Registration and Information Desk Conference Foyer
9.00am - 10.30am	Conference Opening and Plenary Session The Reef Room
Opening Ceremony:	<p>Professor Scott Smith, Chair of AAEE2016</p> <p>Uncle Larry Kelly, Gumbaynggirr Elder</p> <p>Professor Adam Shoemaker, Vice Chancellor and President of Southern Cross University</p> <p>Associate Professor Prue Howard, President of AAEE</p>
Keynote Presentation:	<p>Professor Veena Sahajwalla, UNSW Australia</p> <p><i>Engineering Education for the 21st Century – Why Industry Partnerships Work</i></p> <p>Chair - Les Dawes</p>
Delegates' Group Photograph	
10.30am - 11.00am	Morning Tea

Monday 5th December - Continued

11.00am - 12.30pm	Facilitator - Lynette Johns-Boast <i>Marina Room</i>	Facilitator - Charles Lemckert <i>Harbour Room</i>	Facilitator - George Banky <i>Jetty Room</i>	Workshop 1 <i>Sapphire Room</i>	Workshop 2 <i>Crystal Room</i>
11.00am	A Novel Real-Time Detailed Feedback Collection and Interaction Tool for Large Classes Alireza Ahmadian Fard Fini, Ali Akbamezhad and Taha Rashidi	Reskilling the manufacturing workforce and developing capabilities for the future Irene Penesis, Robin Katersky Barnes, Sue Kilpatrick, Mark Symes and Bernardo Leon de la Barra	Skills for Managing Virtual Projects: Are they Gained Through Graduate Project Management Programs? Tarek Tawik, Hiyam Al-Kilidar and Ravindra Bagia	Inclusive Pedagogy in Engineering Education Homero Murzi	Using Narrative Analysis in Engineering Education Research: A Practical Guide Luke Alao and Llewellyn Mann
11.15am	Students' feedback - what can we do with it? Nirmal Mandal	Essential Skills for Engineering Cadets and Graduates: Responses from an Industry Survey Shara Cameron and Josh Devitt	Teaching Engineering Design using Modular Methods with Virtual Tools John Brady, Matthew Joordens and Ben Horan		
11.30am	Formative feedback on writing skills for international EAL student engineers Elizabeth Yong, Catherine Irving and Hiromi Teramoto	Professional development within study abroad programs for engineering educators to gain confidence in preparing students to contribute to the Sustainable Development Goals Nick Brown, Joli Price, Jennifer Patricia Turner and Alanta Colley	Assessing Students' Experiences in a Virtual Learning Environment Sivachandran Chandrasekaran, Julius Orwa and John Long	Inclusive Pedagogy in Engineering Education Homero Murzi	Using Narrative Analysis in Engineering Education Research: A Practical Guide Luke Alao and Llewellyn Mann
11.45am	Student considerations on the use of annotated lecture notes and recordings in a learning environment Emily Cook, Therese Keane and Aaron Blieblau	Transitioning into Professional Practice: The Employer Perspective Hansani Thebuvana, Roger Hadgraft and Firoz Alam	Optical Spectroscopy Laboratory with Complementary Virtual and Hands-on Experiments Maria del Carmen Lopez-Bautista, Rodolfo Lorenzo-Bautista and Jumnuen Miron-Carrasco		
12.00pm	Out-of-Class Mathematics Support for Engineering Students Ian Lightbody, Therese Wilson and Graham Dawson	Customizing the EPSA Rubric to Cover Local Curriculum Content for Assessment of Engineering Professional Skills Hadisantono, Gerard Rowe and Nasser Giacaman	Augmented Reality in Engineering Education: Current Status and Future Opportunities Veronica Halupka	Inclusive Pedagogy in Engineering Education Homero Murzi	Using Narrative Analysis in Engineering Education Research: A Practical Guide Luke Alao and Llewellyn Mann
12.15pm	Discussion	Discussion	Discussion		
Student Feedback					
Industry Skills Development					
Alternative Learning Environments					
Lunch					
Charlie's Restaurant					

Monday 5th December - Continued

Monday 5th December - Continued		AAEE AGM		Jetty Room		Island Court	
1.00pm - 1.45pm							
1.45pm - 3.15pm	Presentation 4 Facilitator - Chris Browne <i>Marina Room</i>	Presentation 5 Facilitator - Graham Town <i>Harbour Room</i>	Presentation 6 Facilitator - Jo Devine <i>Jetty Room</i>	Workshop 3 <i>Sapphire Room</i>	Workshop 4 <i>Crystal Room</i>		
1.45pm	Optimising Accurate Academic Language Skills for Engineering Higher Degree by Research Students Alison-Jane Hunter, Colin Kestell and Margaret Cargill	Redesigning Engineering Curricula around Studios Roger Hadgraft, Julia Prior, Justine Lawson, Tim Aubrey and Rob Jarman	Current Engineering Education and Training Practices on Aboriginal Cultural Heritage Thomas Goldfinch and Xavier Hollis	Developing Humanitarian Pathways in Engineering Education and the Impacts on Gender Diversity Alison Stoakley, Jennifer Turner and Nick Brown	Managing Student Behaviours You Don't Understand Lydia Kavanagh and Liza O'Moore		
2.00pm	Transitioning to University: The engineering students' struggle Maree Savins and Neal Lake	Engineering Fundamentals in a new Undergraduate Curriculum John Long, Siva Chandrasekaran and Julius Orwa	Laws of Attraction: Increasing Female Interest in Engineering Tali Duffield and Jonathan Li	Developing Humanitarian Pathways in Engineering Education and the Impacts on Gender Diversity Alison Stoakley, Jennifer Turner and Nick Brown			
2.15pm	Transitional Issues Affecting the First Year Engineering Experience Suzanne Walker and Llewellyn Mann	Increasing Safe Design Practice within the Engineering Curriculum Bernadette Foley, Prue Howard, Yvonne Toft and Mike Hurd	Implementing Active Learning Approaches to Enhance Learning for Students with Diverse Backgrounds in a First Year Engineering Course Hassan Karampour, Benoit Gilbert, Hong Guan, Shanmuganathan Gunalan and Simon Howell				
2.30pm	Classes to pass: Is class attendance a determinant of grades in undergraduate engineering subjects? Timothy Anderson, Chris Whittington and Xue Jun Li	Developing Engineering Sense through Holistic Engineering Education Lisa Hansberry and Scott Smith	Impact of Creating Critical Mass Classrooms for Females Natalie Lloyd and Jolanta Szymakowski				
2.45pm	Using practice architectures theory to compare consecutive offerings of the same subject Anne Gardner, Rosalie Goldsmith and Kirk Vessalas	Discussion	Enhancing global mindsets Justine Lawson, Roger Hadgraft and Patricia McLaughlin				
3.00pm	Discussion						
3.15pm - 3.45pm	Afternoon Tea						

Monday 5th December - Continued

Monday 5th December - Continued		Workshop 5 Sapphire Room	Workshop 6 Crystal Room
3.45pm - 5.15pm	Presentation 7 Facilitator - Colin Kestell Marina Room	Presentation 9 Facilitator - Roger Hadgraft Jetty Room	Presentation 8 Facilitator - Mark Symes Harbour Room
3.45pm	Optimising Problem Solving: student and tutor perceptions of problem solving within mechanical engineering John Willison, Dorothy Missingham, Mel Cheong, Tayesha Papa, Raja Baksi, Siddharth Shah and Gianni Severino	Flipped classroom learning in a large introductory undergraduate engineering course Jonathan Scott, Elaine Khoo, Mira Peter and Howell Round	Evaluation of Blended Learning Strategies from Exam Outcomes Lauren Kark, Ross Odell and Robert Nordon
4.00pm	Validating Student-led Learning Initiatives in Problem Solving: a cross institutional case study Dorothy Missingham, Mel Cheong, Luke Serfas, Deepika Phadke and Mark Symes	Through Engineers' Eyes: a MOOC Experiment Robin Ford, Lorenzo Vigenini, John Vukic, Mahsa Chitsaz and Gangadhara Prusty	Project Design and Scaffolding for Realising Practitioner Learning in a Large First Year Flipped Classroom Course Carl Reidsema, Lydia Kavanagh and Julie McCredden
4.15pm	Perceptions of computer and pen-and-paper based learning environments for engaging in creative problem solving activities Andrew Valentine, Jouri Belski and Margaret Hamilton	Flipped Classroom and Project Based Learning Surendra Shrestha	Exploring the quality and effectiveness of online, focused peer discussions using the MOOC chat tool Carl Reidsema, Lydia Kavanagh, Emmi Ollila, Stephanie Otte and Julie McCredden
4.30pm	Collabor8 and disrupt: Identifying influencers on STEM subject choices Bronwyn Holland, Melissa Ronca Catherine Raffaele and Maya Marcus	Flipping the Classroom in an Engineering Design Unit Scott Wordley, Lim Jen Nee, Matt Taylor and Ashlee Pearson	Student response to a technology enhanced learning space Surendra Shrestha, Harry Wang and Carol Russell
4.45pm	Statistical Analysis of Global Online Watch Data Ronald Hugo and Alexandra Meikleham	Creating a Learning Environment using Game Development Simon Cavenett	Challenges of Teaching Engineering Analysis Software to Distance Education Students Sourish Banerjee, Wama Karunasena and Alexander Kist
5.00pm	Discussion	Discussion	Discussion
5.30pm - 7.00pm	Optional Tour - Solitary Islands Aquarium	Optional Tour - Solitary Islands Aquarium	

(sign up at the registration desk)

Tuesday 6th December 2016

Opens 8.15am	Conference Registration and Information Desk	Conference Foyer
9.00am - 10.30am	Plenary Session	The Reef Room
Keynote Presentation:	Professor Michael Prosser <i>Research into Student Learning in Higher Education: Implications for the Education of Engineers</i> Chair - Tom Goldfrinch	
Panel Session:	<i>Theme - Futuring engineering education</i> <i>Members -</i> Stephen Durkin , Engineers Australia Anne Gardner , University of Technology Sydney Doug Hargreaves , Australian Council of Engineering Deans Trudy Harris , Waikato Institute of Technology Robin King , Australian Academy of Technology and Engineering <i>Facilitator - Prue Howard</i>	
10.30am - 11.00am	Morning Tea	Island Court

Wednesday 7th December 2016

		Conference Registration and Information Desk		Conference Foyer	
		Plenary Session		The Reef Room	
<p>Opens 9.00am</p> <p>9.30am - 10.30am</p> <p>Panel Session:</p> <p>Theme - <i>Toward parity within and beyond engineering education</i> Members - Jade Kennedy, University of Wollongong - Sally Male, University of Western Australia - David Pointing, Engineers Australia - Jenny Turner, Engineers Without Borders Australia Facilitator - Llewellyn Mann</p>					
<p>10.30am - 11.00am</p> <p style="text-align: center;">Morning Tea</p>				Island Court	
<p>11.00am - 12.30pm</p>		<p>Workshop 13 Marina Room</p>	<p>Presentation 19 Facilitator - Justine Lawson Harbour Room</p>	<p>Workshop 14 Sapphire Room</p>	<p>Workshop 15 Crystal Room</p>
11.00am	<p style="text-align: center;">Creating a Learning Environment using Game Development Simon Cavenett</p>	<p>Analysis of Biomedical Engineering Programs in Twelve Universities Abbas Kouzani, Scott Adams and Ian Gibson</p>	<p>Assessment of Credit Arrangements towards Engineering Programs/Courses Kall Prasad Nepal</p>	<p style="text-align: center;"><i>Contextual Factors: Preparing Students for Professional Practice</i></p>	
11.15am		<p>The Geothermal Postgraduate Course at the University of Auckland: A Ten Years Retrospective Sadiq Zarrouk</p>	<p>Influence of Prior Knowledge on Students' Performance in Idea Generation: Reflection on University Entry Requirements Iouri Belski and Regina Belski</p>	<p style="text-align: center;"><i>Using DACUM Job Analysis to Align Curriculum with Industry Needs</i></p>	
11.30am		<p>The Comparison of College Students' Engineering Training Education Between United States and China Yun Lin, Chao Wang and Qidi Wu</p>	<p>Rube Goldberg Machines as a Transition to University Tool Reza Mahinroosta and Euan Lindsay</p>	<p style="text-align: center;"><i>Using DACUM Job Analysis to Align Curriculum with Industry Needs</i></p>	
11.45am		<p>Pedagogical differences in Engineering Education at Taiwanese and Australian universities Shaun Chen and Lydia Kavanagh</p>	<p>#UONinspire: Reinventing Orientation Bill McBride, Natalie Downing and Ruth Pring</p>	<p style="text-align: center;"><i>Using DACUM Job Analysis to Align Curriculum with Industry Needs</i></p>	
12.00pm		<p>Don't blame the student, it's in their mind: Helping engineering students to grasp complex concepts Julie E McCredden, Peter O'Shea, Philip Terrill and Carl Reidsema</p>	<p>Redefining the Teaching of Enthalpy and Entropy in Thermodynamics Meng Wai Woo</p>	<p style="text-align: center;"><i>Using DACUM Job Analysis to Align Curriculum with Industry Needs</i></p>	
12.15pm		<p style="text-align: center;">Discussion</p>	<p style="text-align: center;">Discussion</p>	<p style="text-align: center;">Discussion</p>	

