Sunday

Time		
11:00-11:30	**Pre-Conference meetings**	
11:30-12:00		
12:00-12:30		
12:30-13:00		
13:00-13:30		
13:30-14:00		*AAEE Early Career Academy meeting*
14:00-14:30		
14:30-15:00	**Welcome**	*Welcome to attendees, AAEE Early Career Academy induction, Social Program, Networking*
15:00-15:30		

Monday

Time					
09:00-09:30	**Opening**				
09:30-10:00	**Keynote: Sheryl Sorby**				
10:00-10:30	*Chair: Anne Gardner*				
10:30-11:00	*Break*				
11:00-11:30	**Session M1**	M1A Workshop: Educational Engineering Escape Rooms *Facilitators: Robert Ross and Sarah Ross*	M1B Workshop: Facilitating improvements in group work *Facilitator: Keith Willey*	M1C Workshop: Developing Entrepreneurial Mindsets *Facilitators: Jeri Childers*	M1D Workshop: Humanitarian engineering education *Facilitators: Andrea Mazzurco, Nick Brown, Jeremy Smith and Scott Daniel*
11:30-12:00					
12:00-12:30					
12:30-13:00	*Break*				
13:00-13:30					
13:30-14:00	**Session M2**	M2A Engineer 2035 *Chair: Anthony Kadi* **#1 Impact of Digital Disruption in the Workplace Learning: A case of Marine Engineers** *Saratkumar C. Narayanan and Gholam Reza Emad* **#48 Communicating the Changing Nature of Engineering Education** *Peter Lee, Robert Lawrence, Doug Hargreaves, Caroline Crosthwaite, Robin King and Ian Burnett* **#50 Shipping 4.0 Disruption and its Impending Impact on Maritime Education** *Gholam Reza Emad* **#58 Are we ready to transform engineering education?** *Roger Hadgraft, Carl Reidsema and Ian Cameron* **#65 Engineering education programs and pedagogies for the future** *Caroline Crosthwaite, Bernadette Foley, Llewellyn Mann, Peter Lee, Robin King and Doug Hargreaves*	M2B COVID-19; Online education, Blended learning *Chair: Rebecca Goldsworthy* **#94 Motivating mechanical engineering students to learn fluid power concept: a positive impact of simulation software** *Nirmal Kumar Mandal and Kalam Azad* **#102 Trying-out digital technologies in trying times: A collection of observations from a collegial adventure during Covid-19** *Timothy Anderson, Tom Moir, Roy Nates, Peter Hooper, Chris Whittington, Mike Potheroe, Mike Hadrup and Mark Beckerleg* **#152 Developing Engineering E-Assessment Guidelines for a Superior Student and Staff Experience** *Bradley Malin, Nik Alksnis, Tony Vo and Veronica Halupka* **#155 Ensuring student engagement using conversational interview lectures during the transition to remote learning as a result of COVID-19** *Zein Saleh, Emma Heffernan and Montserrat Ros* **#158 Consulting Techniques in Engineering Education – The Case of Operations Engineering** *Thorsten Lammers, Nathalie Sick and Peter Kandlbinder*	M2C Inclusion, outreach and engagement *Chair: Justine Lawson* **#10 Whose knowledge is it anyway?** *Cat Kutay and Elyssebeth Leigh* **#14 Brand engineering - our words are undermining our intent to increase diversity in engineering** *Claudia Valle and Nick Brown* **#25 Understanding what integrated inclusion looks like in a mega first year team-based engineering course** *Nick Brown, Ashlee Pearson and Tanja Rosenqvist* **#37 Exploring Equity, Diversity and Inclusion with Engineering Classes** *Iain Skinner, May Lim and Siyuan Chen* **#140 Embedding Indigenous perspectives in a first-year engineering design challenge course** *Jennifer Campbell, Ruby Michael and Julie Crough*	
14:00-14:30					
14:30-15:00					
15:00-15:30	*Break*				

		M3A Authentic learning & Professional practice *Chair: Sarah Dart**	M3B Assessment *Chair: Jasmine Tekmen-Araci**	M3C Collaboration/Teamwork *Chair: Raffaella Mammucari*	M3D Workshop: Student Challenge Projects *Facilitator: Julian O'Shea*
15:30-16:00	**Session M3**	**#67 Fostering Engineering Leadership Identity in the Classroom** *Bryce Hughes, William Schell, Brett Tallman and Monika Kwapisz* **#103 The presence of empathy in entrepreneurial subject outlines for IT and software engineering students** *Aleksandr Litvinov, Anne Gardner and Sojen Pradhan* **#163 Mentoring as a Tool: To Bridge the gap between industry and academia for undergraduate students** *Sojen Pradhan and Marcin Kreglicki* **#165 Engineering Graduates working in maintenance within the mining industry in Australia: capability and conceptual gaps** *Himanshi Satnani, Melissa Marinelli, Sally Male and Ghulam Mubashar Hassan* **#168 Renewing Mechanical Engineering for Future Skills** *Roger Hadgraft, Terry Brown and Beata Francis* **#173 Work Integrated Learning and Empathy among Engineering Students** *Ronald Harwood, Sally Male, Nazim Khan and Andrew Guzzomi*	**#16 Utilising Digital Assessment Strategies for Theory & Practical Work in Mechatronics** *Praneel Chand, Mohammad Al-Rawi and Jai Khanna* **#26 Replacing in-class tests with take-home practical tests: focussing on student learning, plagiarism and reproducibility** *Jesin James and Nasser Giacaman* **#70 Changes, Challenges and Opportunities In Assessment Practices: Australian Engineering Academics Respond to Covid-19** *Yasemin Tekmen Araci and Ian Zucker* **#112 Contract cheating and plagiarism in technical disciplines: A conceptual reflection from a multidisciplinary perspective** *Tasadduq Imam, Robert Grose, Narottam Das, Subhash Sharma, Biplob Ray, Nahina Islam, Raj Sharma and Abdul Mazid* **#143 Automatic Assignment Marking using MATLAB Grader and Offline Unit Testing Code** *Alexander Gregg, Nicholas O'Dell, Timothy Farnworth and Christopher Renton*	**#38 Relational Agency in First and Further Year Group Work** *Tania Machet, Jeremy Lindeck, Scott Daniel, Timothy Boye, Eva Cheng and Tanvi Bhatia* **#153 Literature Review: Effective Teamwork and Team Diversity in Engineering Education** *Amar Auckaili and Mohammad Al-Rawi* **#162 A Theoretical Conceptualisation of Team-Based Learning and Assessment** *Jiachun Huang and Scott Wordley* **#164 Initial stages in the development of a sustainability framework for Engineering Student Teams** *Basil Abubaker*	
16:00-16:30					
16:30-17:00					
17:00-?	*Networking*				

Tuesday

Time					
09:30-10:00 10:00-10:30	**Keynote: Keith Willey** *Chair: David Lowe*				
10:30-11:00	*Break*				
11:00-11:30 11:30-12:00 12:00-12:30	**Session T1**	T1A Labs, practical education *Chair: Sasha Nikolic* **#23 Immersive Remote Labs Using Virtual Reality** *Declan Andersen and Aruna Jayasuriya* **#56 Using Lego™ and a field-based construction delivery platform for an authentic learning experience in construction** *Helen Fairweather, Adrian Smith and Kathryn Broadhouse* **#142 Developing metacognition skills through lab assessment** *Jasmina Lazendic-Galloway and Istvan Laszlo* **#146 Electronic Engineering Laboratories - To flip or not to flip?** *Adewale Oyeku, Gaetano Gargiulo and Upul Gunawardana* **#170 WebLan-Designer (v3) over the Past Six Years: Motivation, Benefits, Evaluation and Reflection** *Nurul I Sarkar and Krassie Petrova*	T1B COVID-19; Online education, Blended learning *Chair: Hiyam Al-kilidar* **#21 Students' experience and effectiveness of learning in large classes using a blended learning approach** *Ryan Hoult, Saeed Miramini and Elisa Lumantarna* **#113 Impact of COVID-19 on Introductory Engineering Units: When is the Right Time to Fully Adapt Online Education on a Long Term Basis?** *Rouzbeh Abbassi, Mohsen Asadnia, Fatemeh Salehi and Vikram Garaniya* **#134 The COVID – 19 and CQUniversity's changed learning and teaching pedagogies** *Nirmal Kumar Mandal and M. G. Rasul* **#138 Student engagement and performance under COVID in a civil engineering unit of study** *Tim Wilkinson* **#145 FULL STEAM AHEAD THROUGH THE NEW ZEALAND COVID-19 LOCKDOWN: Successful Delivery of a Second-year Engineering Paper – An Interactive and Hands-on Inspiration.** *Gabriel Segerfrojd*	T1C Collaboration/Teamwork *Chair: Guien Miao* **#29 Multiple transitions: Teaching group work online** *Jeremy Lindeck, Eva Cheng, Tania Machet, Timothy Boye, Scott Daniel and Tanvi Bhatia* **#31 Evaluation of a program for the development of peer mentors** *Scott Daniel, Juliana Kaya Prpic and Peter Cebon* **#57 A GAME-BASED APPROACH TO TEACHING CHEMICAL ENGINEERING PROCESS DESIGN** *Amirali Ebrahimi Ghadi, Gobinath Rajarathnam and Raffaella Mammucari* **#92 Building a successful Engineering Student Team, recommendations from a student leader's perspective** *Daniel Rojas Sanchez and Veronica Halupka* **#160 Accessibility and empathy initiatives in Engineering Student Teams (Paper)** *Morgan Macleod-Finke, Veronica Halupka, Jonathan Li and Scott Wordley*	*T1D Workshop: Mathworks A* *Chair: TBC*
12:30-13:00 13:00-13:30	*Break*	*AAEE Annual General Meeting*			
13:30-14:00 14:00-14:30 14:30-15:00	**Session T2**	T2A Workshop: EA Accreditation *Facilitator: Bernadette Foley*	T2B Workshop: Teamwork through Constructive Controversy *Facilitators: Nicoleta Maynard, Tom O'Neill, Misol Kim and Jiachun Huang*	*T2C Workshop: Purpose-First Approach to Laboratories* *Facilitator: Joshua Burridge*	T2D Workshop: Strategies Online Project-Based Learning *Facilitators: George Goddard, Alison Stoakley, Scott Daniel and Eva Cheng*
15:00-15:30	*Break*				

		T3A Authentic learning & Professional practice *Chair: Eva Cheng**	T3B EER *Chair: Anne Gardner*	T3C Inclusion, outreach and engagement *Chair: Justine Lawson*	*T3D Workshop: Mathworks B* *Chair: TBC*
15:30-16:00		**#18 Implementing Project Based Learning and Tools to Develop Employability Skills for Early Tertiary Learners in Engineering Education** *Jai Khanna, Mohammad Al-Rawi and Praneel Chand* **#22 Influence of TRIZ Heuristics on Divergent and Convergent Thinking Skills of Engineering Students** *Iouri Belski and Nick Brown* **#40 What International Engineers Want: Motivations, aspirations, expectations and perceptions of students in a Post Graduate Engineering Course** *Siva Krishnan, Naomi Campanale and Stuart Palmer* **#126 Practice makes perfect: civil engineers learning to code** *Emily Moylan* **#147 Engineering Creativity: is the number of ideas generated an adequate measure?** *Iouri Belski*	**#19 Seventeen Years of Australasian Engineering Education Research: Trends from Textual Analysis** *Sarah Dart and Sam Cunningham-Nelson* **#55 Shifting Paradigms: From Engineering Education to Education Engineering** *Jay Somasundaram, Mohammad G Rasul, Patrick Danaher and Sahadev Somasundaram* **#89 The Hero's journey: First-year engineering students' visual narratives of personal and professional success** *Jacqueline Dohaney and Alicen Coddington* **#151 Do Australian engineering education researchers publish more educational or non-educational research? A bibliometric analysis** *Andrew Valentine* **#166 Perceptions of Engineering and Engineering Identity Among Senior Secondary School and Tertiary Students** *Matthew Ingram and Seo Woo Bae*	**#35 Impact of online flipped learning on student engagement** *Swapneel Thite, Jayashri Ravishankar, Eliathamby Ambikairajah and Araceli Martinez Ortiz* **#36 Evaluating the Impact of Puzzle-Based Learning on Creativity, Engagement and Intuition of STEM Tertiary Students** *Sergiy Klymchuk, Tanya Evans, Priscilla Murphy, Julia Novak, Jason Stephens and Mike Thomas* **#95 Comparison of students' performance and learning experience in engineering mechanics courses between traditional and intensive teaching modes and small and large classes** *Benoit Gilbert, Shanmuganathan Gunalan, Hong Guan and Hassan Karampour* **#105 From Blended to Distance Learning: Tracking Student Engagement with Online Content in the Wake of COVID-19** *Nicholas Emerson, Geoff Tansley, Wayne Hall and Lisa-Marie Emerson* **#167 Engaging the disengaged: A literature driven, retrospective reflection, of a successful student centric STEM intervention.** *James Lee, Charlene Willis, Jeff Parker, Keane Wheeler, Daniel James and Barbara White*	
16:00-16:30	**Session T3**				
16:30-17:00					
17:00-17:30	**AAEE Awards Ceremony**				
17:30-18:00					

Wednesday

		W1A Workshop: Tacit Knowledge Sharing in Teaching	W1B Workshop: Writing good journal reviews	W1C Workshop: International students learning and support	W1D Workshop: Guided Simulation in Professional Practice
09:30-10:00	**Keynote: Lizzie Webb** *Chair: Tom Goldfinch*				
10:00-10:30					
10:30-11:00	*Break*				
11:00-11:30		*Facilitators: Cat Kutay and Elyssebeth Leigh*	*Facilitators: Sally Male, Anne Gardner, Johannes Strobel, Kacey Beddoes, Scott Daniel, Ray Eaton, Rosalie Goldsmith, Julia Lamborn and Sasha Nikolic*	*Facilitators: Siva Krishnan, Jayashri Ravishankar, Chamith Wijenayake and Stuart Palmer*	*Facilitators: Julie Myers and Graham Town*
11:30-12:00	**Session W1**				
12:00-12:30					
12:30-13:00					
13:00-13:30	*Break*				

		W2A Authentic learning & Professional practice *Chair: Anthony Kadi*	W2B Inclusion, outreach and engagement *Chair: Emily Moylan*	W2C COVID-19; Online education, Blended learning *Chair: Tania Machet**
13:30-14:00		**#12 Early Career Civil Engineers' Trajectory Study: Development of the ECCET Concept** *Model Sonia Reis, Jonathan Bunker and Les Dawes* **#17 Identification of Threshold Capabilities in Engineering Workplace Conflict Resolution** *Kyle Ludewick, Sally Male, Andrew Valentine and Ghulam Mubashar Hassan*	**#4 Khan-Style Video Engagement in Undergraduate Engineering: Influence of Video Duration, Content Type and Course** *Sarah Dart* **#13 How Co-educational and Single Sex High School Environments Affect Women's Pursuit of STEM**	**#84 Disrupting a flipped classroom to become fully online** *Gavin Buskes* **#115 A Model Connecting Online Sharing and Learning** *Christopher C. Tisdell*
14:00-14:30	**Session W2**	**#34 Capability building through workplace based learning in Maintenance and Reliability Engineering (MRE) Post Graduate Programs** *Gopinath Chattopadhyay and Jo-ann Larkins* **#100 Engineering Activities and Competencies in the Bhutanese Hydropower Sector: A Pilot Study** *Gayleg Zangmo, Llewellyn Mann and Andrea Mazzurco*	*Rebecca Ellinson, Tony Vo and Daniel Edgington-Mitchell* **#59 Applying the university's Learning Management System (LMS) data to validate the quantitative tool for evaluating student workload** *Shahnaz Mansouri, Jonathan Li, Veronica Halupka and Julia Lamborn*	**#157 Evaluating enablers and barriers for remote teaching during COVID-19 pandemic: Experiences of engineering educators** *Dr Savindi Caldera, Associate Professor Cheryl Desha and Professor Les Dawes* **#159 Evaluation of the virtual hackathon GovHack as a viable authentic learning assignment in undergraduate engineering as we move towards "the new normal"**
14:30-15:00		**#121 Enhancing Active Learning in Challenging World: Simple Strategies** *Sarla Kumari, Thilanga Ariyarathna, Mohammad Al-Rawi and Joseph Ross*	**#76 From paper to digital: learnings from a digital uplift program** *Nik Alksnis* **#107 Effects of COVID-19 on Engineering Students' Baseline Stress** *Andrew Danowitz and Kacey Beddoes* **#148 Digital games for spatial reasoning in the early years: Building the foundations for STEM learning** *Ha Dang, Eleanor Forwood, Lokukankanange Peiris, Sian Seeley, Jonathan Li, Marilyn Fleer and Prabhat Rai*	*Kathryn Broadhouse, Adrian McCallum and Helen Fairweather* **#171 Video Conferencing for Final Year Projects - Experiences from a forced exploration** *Bill McBride*
15:00-15:30 15:30-16:00	**Plenary/Close**			