

## Discipline Day – Tuesday 30<sup>th</sup> September

9:00 - 9:30	Registration				
9:30 - 11:00	Workshop 1 - 21168 -The Bladerunner Blueprints: Engineering the Perfect Learning STE(A)M WIL Experiences Sarah-Jane Gregory ACDS Fellowship				
11:00 - 12:00	Shared Session: <b>Leadership and Evidencing Impact in Education-Focussed Academic Roles</b> Organisers: Louise Kuchel, Brian Yates Session Description: Panel, Q&A				
12:00 - 13:00	Lunch				
	Parallel Session				
	Session 1		Session 2		
13:00 - 14:30	<b>Getting Published in Education Journals</b>  Organisers: Susan Howitt, Anna Phillips, Yossi Rathner, Helen Georgiou, Elizabeth Yuriev  Session Description: Panel, Q&A		<b>Education Focussed Career Pathways</b>  Organisers: Chris Duffy and/ or Elizabeth Yuriev and team (supporting DBER)		
14:30 - 15:00	Break				
	Parallel Session				
	Session 1	Session 2	Session 3	Session 4	Session 5
15:00 - 17:00	<b>Chemistry</b> 21157 - RACI Chemistry Education Division Workshop Sara Kyne	<b>Biology</b> TBC Lisa Godhino & Fran van den Berg	<b>Physics</b> 21172 - Designing Dynamic Formative Assessments with Digital Tools Istvan Laszlo & Elizabeth Angstmann	<b>Maths and Stats</b> 21272 - TEACHING, SUPPORTING AND ASSESSING LARGE MATHEMATICS/STATISTICS/DATA SCIENCE COHORTS Anthony Morphet	<b>Third-space</b> 21346-WHERE WE BELONG: MAKING ROOM FOR THE THIRD SPACE Joanne Castelli, Neil Lawrence & Vebica Evans
17:00 - 18:30	ACSME Conference Welcome Function				

## Conference Day One – Wednesday 1<sup>st</sup> October

	Registration			
8:40 - 9:00	<p>Welcome to Country Introduction &amp; housekeeping Opening address: Prof Emma Johnson (VC UoM)</p>			
9:00 - 10:00	Keynote 1 - Claire Meaders			
10:00 - 10:30	Morning Tea			
	Parallel Session			
	Session 1	Session 2	Session 3	Session 4
10:30 - 10:50	<p>21072 - Investigating Quantitative Skill Preparedness when Transitioning from Stage 6 Science to Tertiary Science Studies Tingyue Hou</p>	<p>21177 - Improving quantitative literacy skills for biomedical science students through targeted e-learning resources Amber Willems-Jones</p>	<p>21051 - Experiences of sex and gender inclusivity in science CLASSROOMS Hendrika M. Duivenvoorden</p>	<p>21034 - Promoting growth and excellence in data science education: developing a mentoring ecosystem Di Warren</p>
10:50 - 11:10	<p>21134 - WHAT ATTRIBUTES BEST PREPARE STUDENTS FOR SPECIALIST SCIENCE SECONDARY SCHOOLS? Sakol Warintaraporn</p>	<p>21020 - IMPACTS OF VIRTUAL TEAM TEACHING VS SOLO LECTURING ON THE FIRST YEAR STUDENT EXPERIENCE IN EARTH SYSTEMS SCIENCE Rory McNab</p>	<p>21070 - Unlocking Student Potential with Inclusive Teaching Strategies Leesa Sidhu</p>	<p>21082 - Universal design for learning applied to an undergraduate statistics subject Adriana Zanca</p>

11:10 - 11:30	21152 - STEM education as a pedagogy that reveals primary student's 'super-powers' Jennifer Way	21076 - DIGITAL DISRUPTIONS OF STUDENT INTERACTIONS DURING PROBLEM SOLVING Kimberly Vo	21114 - Sign Language as a Universally Designed Teaching and Learning Tool for 3D Representation in Chemistry Education Anna Gonzalez	21045 - EXPLORING GENERATIVE AI'S POTENTIAL FOR CURRICULUM MAPPING Emily Faulconer
11:30 - 11:50	21096 - Links Between Perceived Uncertainty and Science Confidence in High School Students Maria M. Pettyjohn	21169 - INCREASING INTERACTIVITY IN SMALL-GROUP TEACHING: IMPLEMENTING NEW TECHNOLOGY IN A STATISTICS COURSE Paul Fijn	21078 - QUIET CLASSES: LOW-SENSORY TEACHING ENVIRONMENTS Melanie Robertson-Dean	21109 - Somewhere to hang your hat': The Schema and Scaffolding Benefits of Unit Narratives and Activity-Level Learning Outcomes James Brown
11:50 - 12:10	Poster lightening talks divided into two parallel sessions			
12:15 - 12:45	Lunch			
12:45 - 13:30	Poster session			
	Parallel Session			
	Session 1	Session 2	Session 3	Session 4
13:30 - 13:50	13563 - DESIGNING AND EVALUATING PLACE-BASED CULTURAL IMMERSIONS FOR TRANSFORMATIVE LEARNING Rebecca Cross	21036 - Practice Before Theory? Rethinking Instructional Order in Undergraduate Anatomy Suresh Krishnasamy	21079 - RE-IMAGINING ASSESSMENT IN A PHYSICS COURSE FOR AVIATION STUDENTS Sam Tuttle	21181 - Australian DBER: Investigating the landscape and developing innovative TRAINING resources Elizabeth Yuriev

13:50 - 14:10	21159 - Embedding Indigenous Perspectives in IT Innovation and Entrepreneurship Education Jack Li	21194 - MEASURING MORE THAN BIODIVERSITY: ENHANCING STUDENT ENGAGEMENT THROUGH FIELD-BASED LEARNING Francesca van den Berg	21193 - BEYOND THE GRADEBOOK: ASSESSING LARGE STUDENT COHORTS AND REIMAGINING THE FUTURE OF ASSESSMENT IN THE AGE OF AI Stephanie Wallace	21163 - Is it me? Why students don't turn up for class Katrina Blazek
14:10 - 14:30	17431 - Engaging the Community in Science: A Student-Led Model for Inclusive STEM Outreach and Experiential Learning. Joanne Jamie	21153 - Enhancing Nutrition Physiology Learning Through Reality Bitesä VR Jessica Danaher	21160 - AUTHENTICITY IN PHYSIOLOGY EDUCATION Marwa Abdoul Ghayour	21120 - TAKING A PROGRAM-LEVEL APPROACH TO CURRICULUM DESIGN Mohammad Rafat
14:30 - 14:50	ACDS Elevating Indigenous Science in Higher Ed - looking to the future Lisa Godinho	21180 - 360-DEGREE VIRTUAL LAB AND FIELD TRIP INDUCTIONS FOR SCIENCE DISCIPLINES Michelle Spencer	21058 - Exploring the impact of 'choose your own' assessment styles in large chemistry/biology units in a post AI world Stephen George-Williams	21066 - Investigating the Influence of Well-Being and Self-Efficacy on Motivation Daniel Andrews
14:55 - 15:45	Keynote 2 - Joe Sambono & Katrina Wruck			
15:45 - 16:15	Afternoon tea			
16:20 - 16:40	21182 - ACSME: A TALE OF 30 YEARS OF CAPACITY BUILDING AND STEERING A COMMUNITY. A. Yeung			
16:40 - 17:00	21179 - Beyond the Network: How SaMnet Shaped a Generation of STEM Leaders. M. Sarah-Jane Gregory			
18:00 - 23:00	Conference Dinner			

## Conference Day Two – Thursday 2<sup>nd</sup> October

8:00 - 9:00	Registration			
9:00 - 9:50	Keynote 3 - Tracey Kuit			
10:00 - 10:30	Morning Tea			
	Parallel Session			
	Session 1	Session 2	Session 3	Session 4
10:30 - 10:50	21123 - SCALING WORK-INTEGRATED LEARNING IN THE CORPORATE SECTOR: ENTERPRISE WIL FOR ENDURING INDUSTRY PARTNERSHIPS Daniel Czech	21185 - THE MATHEMATICS ACADEMIC PLANNER IN ACTION: TAILORING DIAGNOSTICS AND SUPPORT PATHWAYS FOR MATHEMATICAL SUCCESS IN STEM AND ECONOMICS Andrew Chuter	21103 - Adapting Assessment in the GenAI Era: AN Undergraduate Physics Case Study Emily Faulconer	No presentations in this block
10:50 - 11:10	21210 - STEM workplace case studies – an authentic scalable WIL activity Caroline Taylor	21190 - Is 'Vibes-Based Grading' in first-year mathematics FAIR? Adam Piggott	21161 - BioLogic: new software to improve explanatory skills and facilitate feedback and assessment in large STEM classes Michael J. Murray	
11:10 - 11:30	21199 - STEM FUTURES: EMPOWERING STUDENTS THROUGH CAREER DEVELOPMENT LEARNING THAT EMBRACES CRITICAL REFLECTION Joanne Castelli	21192 - Layers of belonging: Understanding the Learning Journeys of higher-level Chemistry students Dilusha Munasinghe	21204 - AI-POWERED, ACADEMIC-DRIVEN: AN APPROACH FOR PERSONALISED STUDENT FEEDBACK AND LEARNING Andrew Cutting	

11:30 - 12:00	Speaker TBC			
12:00 - 13:00	Industry Panel			
13:00 - 14:00	Lunch			
	Parallel Session			
	Session 1	Session 2	Session 3	Session 4
14:00 - 14:20	21189 - Integrating Generative AI into science education via custom GPTs: construction, deployment, and student interactions Elizabeth Yuriev	21060 - Experiential Learning for STEM Futures: Designing Transformational Museum Experiences to Develop Young People's Futures Thinking Lisa Bailey	21032 - DISTRACTING DISTRACTORS: EXPLORING THE ROLE OF OPTIONS IN A MULTIPLE-CHOICE QUESTION EXAM Rashika Agarwal	21137 - Longitudinal Insights from Students' Science Reports through AI-Driven Data Analysis James D Cleaver
14:20 - 14:45	21173 - EMBRACING NOT AVOIDING GENERATIVE AI TO ENHANCE SCIENTIFIC WRITING EDUCATION Jody Gorman	21071 - Transforming an Entire Physics Advanced Laboratory Sequence Benjamin Pollard	21175 - Do questions interspersed in short online instructional videos improve short- and long-term student recall? Adrian Hunter	21166 - Supporting Diverse Women in STEM: Lessons from a PhD Internship Initiative Helen Georgiou
14:40 - 15:00	21059 - Evaluating the effectiveness of a Gen-AI first maths & stats support centre to develop numeracy skills Luis Camacho	21099 - UNDERGRADUATE STUDENTS' PERCEPTIONS OF PRACTICAL EXPERIENCES Susan Howitt	21165 - Interactive by Design: Elevating Student Engagement Rahini Ragavan	21105 - What Does Success Mean to Chemistry Students? Exploring Definitions, Supports, and barriers Siobhán S. Wills

15:00 - 15:20	21127 - HOW STUDENTS USE THE SCIENTIFIC WRITING ASSISTANT CHATBOT TO SUPPORT SCIENTIFIC WRITING Osu Lilje	21100 - Reflections and learnings from an interdisciplinary subject Jiang-Li Tan	21115 - IMPACT OF MACHINE LEARNING COMPUTER VISION PHENOTYPING TOOL ON STUDENTS Callum J Vidor	21113 - Enhancing Student Learning Through Video Feedback and Structured Reflection Pierre Naeyaert
15:20 - 15:40	ACDS announcements & Conference close			
	Afternoon tea & networking			