



Australasian Simulation Congress

2 – 5 September 2019

Gold Coast Convention and Exhibition Centre,
Gold Coast, Australia

www.simulationcongress.com

AUSTRALASIAN SIMULATION CONGRESS (ASC) Day 1 Monday, 2 September 2019

MASTERCLASSES

	<i>Room 1</i>	<i>Room 2</i>	<i>Room 3</i>	<i>Room 4</i>
9.00am – 12.45pm	Introduction to Systems Thinking, Modelling & Simulation Jawahar Bhalla	Use of Virtual, Augmented and Mixed Reality in Defence - from Training to Battlefield Situational Awareness Chris Mackenzie	Using Simulation to Develop and Assess Situation Assessment Skills in Complex Organisational Settings Mark Wiggins	Virtual and Augmented Reality - Recent Advances in Healthcare Liam Mcguire & Dr Walter Greenleaf
12.15pm – 4.30pm	Escape Room: exploring team dynamics (offsite) Dr Diane Dennis			
1.15pm – 5.00pm	"The Right Narrative - Scenario Writing for Simulation, Mastering Scenarios with Mission Threads and SISO's Guideline for Scenario Development" Kevin Galvin & LTCOL Grant Chambers	3D Printing - an Essential Primer Matthew Mac Partlin & Dr Ryan McMullan	Essential techniques for after action review and debrief - ensuring training maximal effectiveness Jawahar Bhalla & Dr Komal Bajaj	Harnessing the potential of social media– learning, teaching and career development Jessica Stokes-Parish & Professor Victoria Brazil

AUSTRALASIAN SIMULATION CONGRESS (ASC) Day 2

Tuesday, 3 September 2019


8.30am	Conference Opening & Welcome to Country					Arena 1B
9.00am	Keynote Presentation Dr. Walter Greenleaf					Arena 1B
9.45am	Keynote Presentation Prof. Marek Kowalkiewicz					Arena 1B
10.30am	Morning Tea					Exhibition Hall
	Arena 1B	Arena 1A	Room 5	Room 6	Room 7	
	SIMTECT <i>Chair: Sharon Clipperton</i>	SIMHEALTH <i>Chair: Stephanie Barwick</i>	SIMHEALTH <i>Chair: Cyle Sprick</i>	SIMHEALTH <i>Chair: Samantha Dix</i>	SIMHEALTH <i>Chair: Robyn Dickie</i>	
11.00am	“For your SA”: Insights from a Situation Awareness Training Study Dr Susannah Whitney	In Situ Sim: The Good, The Bad & The Ugly. Stuff You Need to Know Russell Metcalfe-Smith	LLETZ just do it! Simulation Training for Cervical Excision Procedures Dr Sarah Janssens	MED-E-SIM: Inspiring health care study/career in secondary school students through simulated learning Mr Alberto Au	Medical Student Simulation Scenarios Written, Delivered and Debriefed by Peers Assoc Prof Leo Nunnink	
11.18am	T2IPING (Team Training for Inter-Professional Insight, Networking, and Guidance) Point: Integrating a High Fidelity, Simulation-based Inter-Professional Team Training Program into a Health Sciences Center Dr John Paige		The Effect of Simulation-Based Education On Students’ Attitudes And Perceptions In Cardiorespiratory Physiotherapy Dr Laura Brown	Using Simulation to Explore the Feasibility of Wearable Interactive Telepresence Technology to Support Remote Clinicians Treating Patients with Traumatic Injuries Mr Matthew Shuker	JasperVR: Development of an innovative Virtual Reality program for nursing students Professor Debra Kiegaldie	
11.36am	Hierarchy and medical error: Speaking up when witnessing an error. A systematic review identifying the limitation of speaking up training in the simulated environment Mr Rod Peadon		Implementing the transvaginal ultrasound simulation training (TRUSST) programme for obstetric registrars Dr Sally Byford	Use of mixed reality overlays on manikin simulator to replicate clinical deterioration of patient Mr Matthew Shuker	Can Simulation Foster Resilience In Medical Students? Dr Natasha Yates	
11.54am	Focusing the ‘gaze’ on facilitators of simulation Dr Elysabeth Leigh		Using moulage to enhance high fidelity re-sternotomy simulations Mr Tom Hallahan	Looking good Sister! The use of a virtual world to develop nursing skills Pauletta Irwin	Medical Students as Simulation Educators – outcomes from an immersion experience Victoria Brazil	

12.12pm	Human performance in the maritime control room: Using simulation for exploring team cognition and information layer design Jessica Irons		How to enhance high fidelity surgical simulations to equally engage all of the surgical trauma team Tess Vawser		
12.30pm	Lunch	<i>Exhibition Hall</i>			
	Arena 1B	Arena 1A	Room 5	Room 6	Room 7
	SERIOUS GAMES <i>Chair: Dale Linegar</i>	<i>Chair: A/Professor Anjum Naweed</i>	SIMHEALTH <i>Chair: Dr John Paige</i>	SIMHEALTH <i>Chair: Dr Diane Dennis</i>	SIMHEALTH <i>Chair: Sharon Clipperton</i>
1.30pm	Digital Australia Report 2020: The Power of Games Professor Jeffrey Brand <i>1.30pm – 2.15pm</i>	Using the ADELIS Model approach to facilitate design of simulation-based teaching, learning and assessment Dr Amanda Davies	An introduction to an innovative two-phase simulation debrief approach Colleen Ryan	Facilitating an interprofessional Bush Medicine Simulation for 1st year medical students' and Koorie nursing students; challenges and lessons Kellie Britt	Multi-modal learning using virtual reality simulation in neonatal resuscitation: A new educational approach Ms Jessica Williams
1.48pm				Needs analysis of the Victorian simulation community of practice Ms Monica Peddle	Introducing OPTIMUS BONUS (Bank of Independently Useful Scenarios) Dr Sonia Twigg
2.06pm				Engagement in Simulation: what is it? Do we need it? Can we measure it? Dr Belinda Judd	The OPTIMUS (Optimising Paediatric Training in eMergencies Using Simulation) Curriculum for Practitioners Caring for Children Mrs Tricia Pilotto
2.24pm				Optimisation through simulation: Embedding facility and process testing organisation wide Stephanie Barwick	Vrroom Vrroom PIPER retrieval simulation on the move Ms Victoria Kane
	How VR and other technologies are disrupting the theme park industry Tony Lines <i>2.15pm – 3.00pm</i>				

2.42pm				TVD: trigger video debriefing, a simulated learning experience for the rural and remote learners. With application to the larger Regional and Metropolitan simulated learning environments Mr Rod Peadon	Location, Location, Location: How hosting a paediatric resuscitation course within clinical environments combines educational impact and tests systems integrity Ms Louise Dodson
3.00pm	Afternoon Tea			Exhibition Hall	
	Arena 1B	Arena 1A	Room 5	Room 6	Room 7
	SIMHEALTH <i>Chair: Sharon Clipperton</i>	SIMTECT	SIMTECT <i>Chair: Dr Amanda Davies</i>	SERIOUS GAMES <i>Chair: Dale Linegar</i>	SIMTECT <i>Chair: Dr Susannah Whitney</i>
3.30pm			Utilisation of debriefing methodology for organisational cultural change Ms Melanie Barlow		Towards Zero Fratricide - Simulation Enabled Live Fire Training Major (retired) Gareth Collier
3.48pm	Born to Build Agency Dr Komal Bajaj <i>3.30pm – 4.20pm</i>		Embedding GEM in our Simulation Programme Dr Rebecca Shaw	eSports Garth Midgely, Nicholas Lynch, Dakota Barker, A/Professor Anjum Naweed	The Application of M&S to Support Decision Making in Multi-domain and Coalition Operations Maj (Retd) Kevin Galvin
4.06pm		Safe container, Safer contents Stochastic Enhanced Event-based Simulation (SEES) Dr Steve Costa	Choose your own adventure; a bespoke learning opportunity Mr Matthew Shuker	<i>3.30pm – 4.30pm</i>	The Application of Systemic Thinking to Understanding the Interoperability Challenges of Distributed Mission Training Jawahar Bhalla
4.24pm	Panel: Creating sustainable change in healthcare, an alternative approach to quality improvement Rebecca Szabo, Tess Vawser, Sonia Twigg, Luke Wainwright		Qualifications and Certification for Transferable simulation skills – Panel Discussion MC: Jan Roche Marcus Watson, KT Waxman, Elysebeth Leigh, Phil Swadling, Karen Blackmore	The research behind Takaro Maru Nihoniho <i>4.30pm – 4.48pm</i>	Path Planning for a Rotary-Wing Unmanned Aerial Vehicle with On-Board EO-IR Sensor Mr Batu Han Ibal
4.42pm	<i>4.20pm – 5.00pm</i>		<i>4.24pm – 5.00pm</i>	What is SGANZ and how to get involved Dale Linegar <i>4.48pm – 5.00pm</i>	Lessons Identified from Interoperability and Operational Relevance testing of the C2SIM Standard Mr Kevin Wood
5.00pm	Welcome Reception				

AUSTRALASIAN SIMULATION CONGRESS (ASC) Day 3

Wednesday, 4 September 2019

	Arena 1B		Room 5		Room 6	
8.00am	ASSH Paediatric Special Interest Group and ASSH Technology Special Interest Group Breakfast		ASSH Rural Special Interest Group Breakfast		ASSH Simulated Patients Special Interest Group Breakfast Hosted by Dr Louise McCall Sponsored by Health Education Australia	
	Arena 1B	Arena 1A	Room 5	Room 6	SimLab – Designed by Igloo (Exhibition Hall)	
	SIMHEALTH <i>Chair: Jessica Stokes-Parish</i>	SIMTECT <i>Chair: Dr Fred Hardtke</i>	SIMHEALTH <i>Chair: Dr Elysebeth Leigh</i>	SERIOUS GAMES <i>Chair: Lorelle Bowditch</i>	<p style="text-align: center;">SIM YOUTH</p> 	
9.00am	Addressing Organisational Needs Utilising Simulation- Based Education: Supportive Leadership Following Critical Events Dr Jenni Sokol	Keynote Presentation CDRE Allison Norris <i>9.00am – 9.45am</i>	Disrupting the familiar: applying educational theories to the design of simulation- based learning and assessment Dr Irwyn Shepherd	"Linking Out Loud" (LOL) a new innovation to promote rapid recall and critical thinking Mrs Wendy Foster		
9.18am	Working with Simulated participants to deliver multiple patient simulation for medical students ...Why, how and lessons learnt A/Professor Nemat Alsaba		Can Virtual Reality simulations learn from Physical Education teaching models? Therese Gunn	(Un)Sportsmanlike Behavior in CS:GO Esports A/Professor Anjum Naweed		
9.36am	Sharing the Lessons: Practical methods for disseminating messages and reports following simulation delivery Dr Sarah McNamee		Trauma Team Training utilising Simulation Based Training Methods Ms Joanne Mckittrick	Mass casualty training for paramedic students using virtual reality: A within- subject trial comparing live simulation to virtual reality Dr Brennen Mills		
9.54am	Interdisciplinary student and staff evaluations of an innovative two-phase simulation debrief model Penny Heidke & Shannon Delpont		Technological and Interoperability challenges for Naval Training CMDR Ian Jimmieson <i>9.45am – 10.07am</i>	A high fidelity simulation training program for hospital staff on managing clinical aggression – a pilot study. Ms Marijke Mitchell		

10.12am	Simulation in undergraduate health education: A considered approach to technology in teaching using electronic medical records Associate Professor Stephen Guinea	The challenges for simulation and training with 5th Generation aircraft MR Darren Manser <i>10.07am – 10.30am</i>	Train the trainer: involving students in developing characters for simulation-based learning Dr Diane Dennis	Sound Scouts: the hearing check that's child's play Cuauhtemoc Moreno	
10.30am	Morning Tea				Exhibition Hall
	Arena 1B	Arena 1A	Room 5	Room 6	SimLab – Designed by Igloo (Exhibition Hall)
	SIMHEALTH <i>Chair: Sharon Clipperton</i>	SIMTECT <i>Chair: Dr Fred Hardtke</i>	SIMTECT <i>Chair: A/Professor Anjum Naweed</i>	SERIOUS GAMES <i>Chair: Dale Linegar</i>	SIM YOUTH
11.00am	'Simulcast presents....." Come and join our live studio audience for an on-stage episode of Simulcast - a podcast about healthcare simulation. Join Vic Brazil, Jesse Spurr and Ben Symon as they interview guests on the show and record a live Journal Club session.	The cultural and organisational challenges to army training LTCOL Ryan Maher <i>11.00am – 11.22am</i>	The long road to overnight success Carolyn Mee <i>11.00am – 11.30am</i>		
11.30am		Challenges using AI for operations research Lyndon Benke <i>11.22am – 11.45am</i>	Emotional Intelligence: A Safety Container for Debriefing and Effective Strategies for Difficult Situations Ms. Chrissy Bloome	SGANZ – An overview of how serious games are being used across Australia and NZ <i>11.30am – 12.30pm</i>	
12.30pm	Lunch				Exhibition Hall
	ASSH Meeting				Arena 1B
	Arena 1B				SimLab – Designed by Igloo (Exhibition Hall)
1.30pm	Cueing Optimal Outcomes in Simulations Prof. Mark Wiggins <i>Chair: Phil Swadling</i>				SIM YOUTH
2.15pm	Serious Games Showcase & Awards Dr Elysebeth Leigh				

3.00pm		Afternoon Tea			Exhibition Hall	
	Arena 1B	Arena 1A	Room 5	Room 6	SimLab – Designed by Igloo (Exhibition Hall)	
	SIMHEALTH <i>Chair: Sharon Clipperton</i>	SIMTECT	SIMHEALTH	SIMHEALTH <i>Chair: Kristian Krogh</i>	SIM YOUTH	
3.30pm	An observational and simulation study comparing a pivot nurse with traditional triage model for increasing patient flow through the emergency department Mr Luke Wainwright <i>3.30pm – 4.15pm</i>	Shared Challenges – Shared Solutions MC: Dr Fred Hardtke CMDR Ian Jimmieson, MR Darren Manser, LTCOL Ryan Maher <i>3.30pm – 4.15pm</i>	Bottoms Up! Solving Challenges to Inter-Professional Education Dr John Paige	Investigating the Effect of Different Simulation Familiarisation Techniques on Participant Immersion during Simulated Clinical Scenarios Mathys Van Lille & Nicolette Frey		
3.48pm				The moulage effect: Expanding the capabilities of your simulated patients. Teach them to apply moulage Miss Clare Scott		
4.06pm				New technology or new techniques: Incorporating Human Factors and Simulation to inform design Brooke Dench		
4.24pm				Does Fidelity Matter Mr Davin Arthur		
4.42pm				Developing Clinical Reasoning in Simulation: a critical focus area Dr Belinda Judd		
5.00pm	Day 3 Concludes					
6.15pm Simulation Australasia Awards Dinner						

AUSTRALASIAN SIMULATION CONGRESS (ASC) Day 4

Thursday, 5 September 2019

	Arena 1B	Arena 1A	Room 5	Room 6
	HEALTH <i>Chair: Sharon Clipperton</i>	SIMTECT <i>Chair: Dr Fred Hardtke</i>	SIMTECT <i>Chair: Phil Swadling</i>	SERIOUS GAMES <i>Chair: A/Professor Anjum Naweed</i>
9.00am	Live Simulation: Using simulation to disrupt traditional teaching in health professional education Dr Ian Summers <i>9.00am – 9.45am</i>	Simulating Search and Rescue Operations Using Swarm Technology to Determine the Effect of Agent Numbers John Page	Evaluating cloud cyber security alternatives using cloud-based simulation Dr Martin Stytz	Serious Games for Business Education Viktor Arity
9.18am		Simulation of an Unmanned Aerial Vehicle Search and Rescue Swarm for Observation of Emergent Behaviour John Page	Modelling and Simulations as a Service: An Australian Direction Mr Shawn Parr	Gamification and AR: Using Design Science Research Methodology to optimize for unique experiences Nikolche Vasilevski
9.36am		Human Simulation and its Potential for Ergonomic Work Design in Mining Dr Ulrich Raschke	Machine Learning & Physiological Metrics Enhance Performance Assessment Amy Dideriksen	Challenges onboarding physios with Swibo Tilt Lukas Stoecklein
9.54am	Panel: Innovation in healthcare education: Tips and tricks, limitations and lessons learnt.... Victoria Brazil, Stephanie Barwick, Jessica Stokes-Parish, KT Waxman <i>9.45am – 10.30am</i>	Assessment of Helicopter Ballistic Armour Protection Based on Dynamic Error Probable Professor Kutluyil Dogancay	Quantum Computing in Simulation Dr Martin Stytz	Not just avoidance: playing WoW in times of 'In Real Life' stress Lorelle Bowditch
10.12am		Modelling simulation for ballistic protection performance of ceramic/fiber reinforced composite armor panels Dr Ping Tan	Balancing Defence Service Experience and Technical Skills to Deliver Simulation Workforce Capability: A Case Study Dr Karen Blackmore	Application of Spatial Solutions for Time in Construction Ms Karen Sanders
10.30am	Morning Tea		Exhibition Hall	
	Arena 1B	Arena 1A	Room 5	Room 6
	SERIOUS GAMES	SIMHEALTH <i>Chair: Sharon Clipperton</i>	SIMHEALTH <i>Chair: Anna Maria Carrera</i>	SIMTECT <i>Chair: Marcus Watson</i>
11.00am	VR AR - Panel MC: Liam McGuire Karen Blackmore, Walter Greenleaf, Garth Midgely <i>11.00am – 11.45am</i>	Introduction to Moulage/ Moulage for healthcare simulation - on a budget Tess Vawser & Tom Hallahan	Assessment of clinical competency using virtual simulation: An integrative review Dr Elisabeth Coyne	The Scenario Invention Task Technique (SITT): a practical innovation for research and practice A/Professor Anjum Naweed
11.18am			Using insitu simulation to rehearse and test new surgical procedures Robyn Dickie	Women in Simulation: disrupting the status quo and finding the balance in gender equality Stephanie Barwick

11.36am			Pilot testing of Objective Simulated Bush Engagement Experience (OSBEE) in the MD Program of the Rural Clinical School, University of Queensland (UQ) Ms Jules Bennet	Development of Standards for the Australian Simulation Community Mr David Ronnfeldt	
11.54am	Impact of Artificial Intelligence on Simulation – Panel MC: John Paige		A Novel Approach to Constructing A Realistic Episiotomy Simulator Dr Belinda Lowe	Simulation accreditation for all- the current status Janiece Roche	
12.12pm	Sujeewa Palagama, Liam McGuire, Garth Midgely, Lyndon Benke <i>11.45am – 12.30pm</i>		First5+ - A team-based approach to in-situ resuscitation skill training Leah McIntosh	Journeys in Developing a Handbook for Simulation Practitioners Ms Elysebeth Leigh	
12.30pm	Lunch	Exhibition Hall			
	Arena 1B	Arena 1A	Room 5	Room 6	
	TECT	TECT	HEALTH <i>Chair: Sharon Clipperton</i>		
1.30pm	Unlocking the Mystery of “Human Factors” – where do they apply and why are they important? Dr Fred Hardtke & A/Professor Anjum Naweed <i>1.30pm – 2.15pm</i>	Land Simulation Core 2.0 – Industry update Ms Jessica Adams & MAJ Will McDade	Simulating Successful Ventures: Investor Portfolio Optimisation Dr Sanjeev Naguleswaran	Developing your career: strategies to succeed as a woman in simulation Jessica Stokes-Parish, Stephanie Barwick with the Women in Simulation Committee	
1.48pm			Two billion dollars and two witch's hats - in situ simulation at its best Ms Anna Maria Carrera		
2.06pm			Using simulation to prepare midwifery and medical students to work together: a mixed methods study Mrs Samantha Dix		
2.24pm			Innovation VS Academic Rigor – Panel Garth Midgely		Simulation safety – a practical approach for a translational simulation program Victoria Brazil
2.42pm			<i>2.15pm – 3.00pm</i>		TBC
3.00pm	Afternoon Tea	Exhibition Hall			
3.30pm	Conference Close	Arena 1B			