

Australasian Simulation Congress

2 – 5 September 2019
Gold Coast Convention and Exhibition Centre,
Gold Coast, Australia

www.simulationcongress.com

SimHealth
PEOPLE • ENERGISING • INNOVATION

SimTecT
Asia-Pacific Simulation Training Conference & Exhibition

SERIOUS GAMES
SHOWCASE & CHALLENGE
(AUSTRALASIA)

BALANCE & DISRUPTION

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

MASTERCLASSES

| | | | | |
|------------------|--|---|--|---|
| 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 Adrian Webb | 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" Robert Siegfried | 3D Printing - an Essential Primer Matthew Mac Partlin | 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

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|---------|--|--|---|--|---|-----------------|
| 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 | |
| | SIMHEALTH | | | SIMTECT | SIMHEALTH | |
| 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 | Realism and presence in simulation: Nursing student perceptions and learning outcomes Mrs Sharon Maclean | |
| 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 | Medical Student Simulation Scenarios Written, Delivered and Debriefed by Peers Assoc Prof Leo Nunnink | |
| 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 | JasperVR: Development of an innovative Virtual Reality program for nursing students Professor Debra Kiegaldie | |
| 11.54am | Focusing the ‘gaze’ on facilitators of simulation Dr Elysebeth Leigh | | Using moulage to enhance high fidelity re-sternotomy simulations Mr Tom Hallahan | Automated Surgical Skills Assessment through AI-based Simulation Techniques Mr. XuanAnh Nguyen | Can Simulation Foster Resilience In Medical Students? Dr Natasha Yates | |

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| 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 | 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 |
| 12.30pm | Lunch ASSH Meeting | | | Exhibition Hall Arena 1B | |
| | Arena 1B | Arena 1A | Room 5 | Room 6 | Room 7 |
| | SERIOUS GAMES | | | SIMHEALTH | |
| 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 | | | | Emergency Medicine Education and Training Goes Bush Ms Kirsty Freeman | The OPTIMUS (Optimising Paediatric Training in eEmergencies Using Simulation) Curriculum for Practitioners Caring for Children Mrs Tricia Pilotto |
| 2.24pm | | | | 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 | 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> | | | | |

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| 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 | SIMTECT | | SERIOUS GAMES | SIMTECT | |
| 3.30pm | Born to Build Agency Dr Komal Bajaj | Safe container, Safer contents Stochastic Enhanced Event-based Simulation (SEES) Dr Steve Costa | Utilisation of debriefing methodology for organisational cultural change Ms Melanie Barlow | Serious Games for Business Education Gillian Vesty & Viktor Arity | Towards Zero Fratricide - Simulation Enabled Live Fire Training Major (retired) Gareth Collier | |
| 3.48pm | | | The Scenario Invention Task Technique (SITT): a practical innovation for research and practice Associate Professor Anjum Naweed | | 3.30pm – 4.00pm | The Application of M&S to Support Decision Making in Multi-domain and Coalition Operations Maj (Retd) Kevin Galvin |
| 4.06pm | | | Embedding GEM in our Simulation Programme Dr Rebecca Shaw | eSports Garth Midgely | 4.00pm – 5.00pm | Efficient Air Burst Intercept Determination Against High Speed Aerial Targets in Simulation Software Mr Roelie Du Plessis |
| 4.24pm | | | Choose your own adventure; a bespoke learning opportunity Mr Matthew Shuker | | | Path Planning for a Rotary-Wing Unmanned Aerial Vehicle with On-Board EO-IR Sensor Mr Batu Han Ibal |
| 4.42pm | | | The Application of Systemic Thinking to Understanding the Interoperability Challenges of Distributed Mission Training Jawahar Bhalla | | | 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

| 8.00am | ASSH Paediatric Special Interest Group Breakfast | ASSH Rural Special Interest Group Breakfast | ASSH Simulated Patients S Special Interest Group Breakfast <i>Sponsored by Health Education Australia</i> | ASSH Technology Special Interest Group Breakfast | |
|---------|---|--|---|---|------------------|
| | Arena 1B | Arena 1A | Room 5 | Room 6 | Room 7 |
| | SIMHEALTH | SIMTECT | SIMHEALTH | SERIOUS GAMES | SIM YOUTH |
| 9.00am | Interdisciplinary student and staff evaluations of an innovative two-phase simulation debrief model Penny Heidke & Shannon Delport | 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 | The Gamification of Emotional Balance - Defining a new approach to wellbeing with the award-winning, immersive game, The Vault. Mr Justin Wight | |
| 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 | Addressing Organisational Needs Utilising Simulation-Based Education: Supportive Leadership Following Critical Events Dr Jenni Sokol | Navy Presentation <i>9.45am – 10.15am</i> | A high fidelity simulation training program for hospital staff on managing clinical aggression – a pilot study. Ms Marijke Mitchell | Racing to Save Lives: Gamification in Simulation Education Miss Prudence Upson | |
| 10.12am | Simulation in undergraduate health education: A considered approach to technology in teaching using electronic medical records Associate Professor Stephen Guinea | | 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 | Room 7 | |
| | SIMHEALTH | SIMTECT | | SERIOUS GAMES | SIM YOUTH | |
| 11.00am | Health Simulcast Presents | Airforce Presentation | Emotional Intelligence: A Safety Container for Debriefing and Effective Strategies for Difficult Situations Ms. Chrissy Bloome | The long road to overnight success Carolyn Mee | | |
| 11.45am | | Airforce Presentation | | SGANZ – An overview of how serious games are being used across Australia and NZ | | |
| 12.30pm | | Lunch | | | Exhibition Hall | |
| | Arena 1B | | | | Room 7 | |
| 1.30pm | Human Factors and Skill Development Professor Mark Wiggins | | | | SIM YOUTH | |
| 2.15pm | Serious Games Showcase & Awards | | | | | |
| 3.00pm | | Afternoon Tea | | | Exhibition Hall | |
| | Arena 1B | Arena 1A | Room 5 | Room 6 | Room 7 | |
| | SIMHEALTH | SIMTECT | SIMHEALTH | | 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 3.30pm – 4.15pm | Plenary Presentation Speaker TBC 3.30pm – 4.15pm | Building sustainable simulation programs – a rural and remote perspective Ms Kirsty Freeman | Investigating the Effect of Different Simulation Familiarisation Techniques on Participant Immersion during Simulated Clinical Scenarios Mr Matthys Van Lille | | |

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| 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 | Moulage, more than just a movie set trick...or is it? Ms Jessica Stokes-Parish <i>4.15pm – 5.00pm</i> | Panel Session Speakers TBC <i>4.15pm – 5.00pm</i> | | Does Fidelity Matter Mr Davin Arthur | |
| 4.42pm | | | | Student clinical skills events: developing student led opportunities for clinical skills experiences Ms Karryn Lytton | |
| 5.00pm | Day 2 Concludes | | | | |
| 6.15pm | Simulation Australasia Awards Dinner | | | | |

AUSTRALASIAN SIMULATION CONGRESS (ASC) Day 4

Thursday, 5 September 2019

| | <i>Arena 1B</i> | <i>Arena 1A</i> | <i>Room 5</i> | <i>Room 6</i> |
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| | HEALTH | SIMTECT | | SERIOUS GAMES |
| 9.00am | Disruption in Healthcare Education - Live Simulation Ian Summers <i>9.00am – 9.45am</i> | Simulating Search and Rescue Operations Using Swarm Technology to Determine the Effect of Agent Numbers Mr Robert Armstrong | Evaluating cloud cyber security alternatives using cloud-based simulation Dr Martin Stytz | TBC |
| 9.18am | | Simulation of an Unmanned Aerial Vehicle Search and Rescue Swarm for Observation of Emergent Behaviour Mr James Gibson | Simulation First Architecture – The Collapse of LVC-G 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 | TBC |
| 9.54am | Innovation in Healthcare Education – Panel Speakers TBC | 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 | <i>9.45am – 10.30am</i> | Modelling simulation for ballistic protection performance of ceramic/fiber reinforced composite armor panels Dr Ping Tan | TBC | Application of Spatial Solutions for Time in Construction Ms Karen Sanders |
| 10.30am | Morning Tea | | <i>Exhibition Hall</i> | |
| | SERIOUS GAMES | SIMHEALTH | | SIMTECT |
| 11.00am | VR AR - Panel MC: Liam McGuire Adrian Webb, 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 | Conducting Training Research in Applied Settings: A Primer for Practitioners Mr Philip Temby |
| 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 |

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| 11.36am | | | Optimisation through simulation: Embedding facility and process testing organisation wide Stephanie Barwick | Development of Standards for the Australian Simulation Community Mr David Ronnfeldt |
| 11.54am | Impact of Artificial Intelligence on Simulation – Panel MC: John Paige Sujeewa Palagama, Defence Rep, Garth Midgely | | A Novel Approach to Constructing A Realistic Episiotomy Simulator Dr Belinda Lowe | Simulation accreditation for all- the current status Janiece Roche |
| 12.12pm | <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 SimAust AGM | | | <i>Exhibition Hall</i> <i>Arena 1B</i> |
| | Arena 1B | Arena 1A | Room 5 | Room 6 |
| | TECT | TECT | HEALTH | |
| 1.30pm | | | 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 | Keynote Presentation Speaker TBC <i>1.30pm – 2.15pm</i> | | Balancing Defence Service Experience and Technical Skills to Deliver Simulation Workforce Capability: A Case Study Dr Karen Blackmore | |
| 2.06pm | | Land Simulation Core 2.0 – Industry update Ms Jessica Adams & MAJ Will McDade | Two billion dollars and two witch's hats - in situ simulation at its best Ms Anna Maria Carrera | |
| 2.24pm | Innovation VS Academic Rigor – Panel Garth Midgely | | Using simulation to prepare midwifery and medical students to work together: a mixed methods study Mrs Samantha Dix | |
| 2.42pm | <i>2.15pm – 3.00pm</i> | | Simulation safety – a practical approach for a translational simulation program Victoria Brazil | |
| 3.00pm | Afternoon Tea | | | <i>Exhibition Hall</i> |
| 3.30pm | Conference Close | | | <i>Arena 1B</i> |