### ISAGA Site Visit & Workshop

**Overview:** Melbourne is the capital of many things, sports, coffee, but did you know that they are also the gaming capital of Australia? 49% of the industry is located within Victoria, thanks to the generous support of the various local government schemes. They also host many gaming related events and venues such as Fireplay, QCAP, PAX AUS and the ACM. Melbourne continues to show off the best that the industry has to offer, culminating in their International Gaming Week in November.

This workshop will highlight some pivotal gaming areas that help contribute to this culture, and allow the gaming industry to be as strong as ever here in Australia. The sites scheduled are world leaders in their fields, covering Virtual Reality, Serious Games and Collaboration, all fostering growth within the industry. The tour will visit 3 sites that demonstrate how powerful games as a medium can be for reaching your audiences and conveying information. Showing the ability for collaboration with other industries to create amazing works that Australia can be proud of.

The event will start with departure at 0900 from the Melbourne Convention and Exhibition Centre, and will return to the Convention and Exhibition Centre at 1730. Lunch will be provided as part of the cost. The workshop is open to everyone willing to look at simulation from a different perspective and interested in how serious games may help their business or academic studies to better their overall participation and results.

**Meeting Room:** 218

**Time:** 0900 to 1730

**Location:** Pick up and drop off is from the Melbourne Convention and Exhibition Centre

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<th>Meeting Room 214</th>
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<tr>
<td><strong>ISAGA Master Class</strong></td>
<td><strong>SimHealth Master Class</strong></td>
<td><strong>SimHealth Master Class</strong></td>
<td><strong>SimTeC Master Class</strong></td>
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<tr>
<td><strong>Urban Gaming for Serious Planning</strong></td>
<td><strong>Working with Children in Simulation: The Practicalities and Ethics of Engaging with Simulated Patients Who are Children</strong></td>
<td><strong>Designing a Medical Education Translational Science Research Program</strong></td>
<td><strong>Leading in Context – Understanding Conditions of Inherent Uncertainty</strong></td>
</tr>
<tr>
<td><strong>Presenter:</strong> Professor Pascal Perez, Director, SMART Infrastructure Facility, Faculty of Engineering &amp; Information Sciences, University of Wollongong</td>
<td><strong>Presenter:</strong> Carrie Hamilton, Director, Education, Training and Innovation, SimComm Academy</td>
<td><strong>Presenter:</strong> Dr William McGaghie, Professor, Medical Education, Northwestern University Feinberg School of Medicine</td>
<td><strong>Presenter:</strong> Professor Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University</td>
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</table>
| **Overview:** In June 2016 Professor Perez will host a pre-congress seminar on the campus at Wollongong University to explore the development of ‘Urban Gaming for Serious Planning’. In this Master Class, Professor Perez will present the results of this workshop in the form of a beta tested Urban Game and participants will have the opportunity to explore both the design principles, and their outcomes in action, through playing the game itself.

This highly interactive session will provide participants with an opportunity to explore all aspects of the initiation, design, trialing and completion process involved in creating an entirely new game.

**Cost:** $265 | **Overview:** This Master Class will cover the question: ‘Is this just nice to have? Or, is engagement with children an essential part of simulation based education.

The process of setting up a paediatric simulated patient program will be covered including resource identification, recruitment and selection, training, risks (including consent and ethics), and quality assurance. The principles of biomedical ethics (Beauchamp and Childress, 2009) will be used to guide the participants in making sense of perceived barriers.

**Cost:** $265 Please note that no lunch will be provided at the beginning of this Master Class | **Overview:** This Master Class will have several brief, structured presentations about research goal setting, research planning, and fundamentals of team science. Participants will be in thematic working groups, involved in research program goal setting and planning, giving and receiving peer feedback, and reaching agreement about realistic research goals given constraints of time and money.

**Cost:** $265 Please note that no lunch will be provided at the beginning of this Master Class | **Overview:** The myth of the great leader pervades the popular management literature with the majority of cases more often being a result of being in the right place at the right time and being lucky than the result of any innate or replicable qualities. Snowden’s award winning HBR cover article on Leadership was one of the first to advocate a contextual approach to understanding the role of leadership. Participants in this Master Class will be introduced to frameworks that allow both dictatorial and servant styles of leadership to be understood and brought into play. Methods and tools to engage the whole of the workforce in distributed decision support will be introduced. An antiseptic recipe of too many approaches to leadership development the workshop will allow delegates to understand both the theory and practice of leadership as an adaptive, agile and resilient response to inherent uncertainty.

**Cost:** $265 Please note that no lunch will be provided at the end of this Master Class |

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<tr>
<td><strong>Principles and Practice of Evacuation Simulation</strong></td>
<td><strong>Network Attack Simulation: An Enabler for Cyber Situational Awareness Analytics and Training</strong></td>
<td><strong>Network Attack Simulation: An Enabler for Cyber Situational Awareness Analytics and Training</strong></td>
<td><strong>Promoting Excellence via Augmented Reflective Learning in Simulation (PEARLS) – A Blended Approach to Debriefing</strong></td>
</tr>
<tr>
<td><strong>Presenter:</strong> Professor Edwin Galea, Director, Fire Safety Engineering Group (FSEG) and Vice Chairman, International Association of Fire Safety Science, University of Greenwich</td>
<td><strong>Presenter:</strong> Dr Shanchieh Jay Yang, Professor and Head of Computer Engineering, Kate Glauon College of Engineering, Rochester Institute of Technology</td>
<td><strong>Presenter:</strong> Dr Shanchieh Jay Yang, Professor and Head of Computer Engineering, Kate Glauon College of Engineering, Rochester Institute of Technology</td>
<td><strong>Presenter:</strong> Dr Adam Cheng, Director, Research and Development, KidSIM Simulation Program, Alberta Children’s Hospital, Department of Paediatrics, University of Calgary</td>
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| **Overview:** Multi-agent evacuation simulation enables the prediction of human behaviour and performance during emergency evacuation – predicting likely evacuation times, identifying potential bottlenecks and in extreme cases predicting likely numbers of fatalities and injuries. In this way the layout can be optimized, while it is in the early design phase, avoiding costly modifications later, when in the structure is built. To develop a good evacuation model we need real world data to identify relevant behaviours and to calibrate our models. Generating this data is challenging – logically, technically, ethically, and politically. This Master Class will discuss some of the data used to identify and quantify human performance and behaviour underpinning evacuation simulation and how we use this to develop and then utilise evacuation simulation for buildings, aircraft, ships, trains and even the larger urban environment. Examples will include issues associated with the evacuation of the mobility impaired with applications not only to hospitals and care facilities but the general built environment.

**Cost:** $265 Please note that no lunch will be provided at the beginning of this Master Class | **Overview:** This Master Class will consist of three components: an overview of history and advances in network attack simulation and their uses in Cyber Situational awareness; an introduction and demonstration of CASCADES (Cyber Attack Scenario and Network Defense Simulator), and an interactive section to discuss the benefits and limitations of network attack simulation for cyber training and analytics.

**Cost:** $265 Please note that no lunch will be provided at the beginning of this Master Class | **Overview:** This Master Class introduces attendees to a novel framework for debriefing which blends 3 existing methods of debriefing into one integrated approach. Using “Promoting Excellence via Augmented Reflective Learning in Simulation” or the PEARLS blended methods approach, facilitators will be able to appropriately select the ideal method of debriefing with decision support. The Master Class offers the opportunity for attendees to practice the PEARLS method of debriefing with the aid of an integrated debriefing tool.

**Cost:** $265 Please note that no lunch will be provided at the beginning of this Master Class |
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<tr>
<th>Time</th>
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<th>Session 3 (90 mins)</th>
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<td>0830-1000</td>
<td>ISAGA Opening</td>
<td>ISAGA Workshop</td>
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<td>1000-1030</td>
<td>ISAGA Opening Membership Meeting</td>
<td>ISAGA Free Papers</td>
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<td>ISAGA Workshop</td>
<td>Simulation and Learning</td>
<td>Diversity</td>
<td>Simulation and Organisations</td>
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<tr>
<td>1200-1330</td>
<td>ISAGA Workshop</td>
<td>Oral Presentation</td>
<td>Oral Presentation</td>
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<tr>
<td>Lunch</td>
<td>ISAGA Workshop</td>
<td>Building 'Safe Containers' for Effective Learning</td>
<td>A Study on Gaming Simulation as a Key of Meta-frame of Planning for Neighbourhood Immigrant Integration and Co-existing Diversity</td>
<td>From Recreational to Clinical Approaches: The Use of the Ludic Program Cuatro Tribus as a Complementary Tool for the Reintegration Treatment of Juvenile Offenders</td>
</tr>
<tr>
<td>Afternoon</td>
<td>ISAGA Workshop</td>
<td>Simulation and Organisations</td>
<td>Diversity</td>
<td>ISAGA Workshop</td>
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<tr>
<td>1500-1530</td>
<td>ISAGA Workshop</td>
<td>Successful Design and Application of Games and Simulations in Real-World Settings: a Holistic Approach to Scaling Project-Oriented Problem-Based Learning University-Wide</td>
<td>Building Strategies for Organisational Development with Simulation Games</td>
<td>Classroom as Organisation - a Simulation Strategy for Enacting Leadership in Formal Learning Contexts</td>
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**ISAGA Opening**

**ISAGA Workshop**

**ISAGA Free Papers**

**Generating Safe Error Rich Training Environments**

*Panellist:*
Nick Argall, Independent Developer

**Overview:**
By generating a safe error rich training environment, participants are given the opportunity to practice and refine the core skills and strategies that often fail in the prelude to sentinel events. Instead of judging participants on their ability to prevent failure, participants develop their ability to identify error and address failure. Other industries that rely on high frequency of inter-personal communication or incomplete or unreliable information for decisions (e.g. crisis resource and disaster management – both civilian and military and management, political and financial or economic strategy) are invited to participate in or observe this training and contribute other ideas and strategies that fulfil the brief of a psychologically safe simulation.

**Maintaining the Suspense - Facilitating Simulations so that the Debriefing Continues the Learning**

*Panellist:*
Elizabeth Tipton, Professor Decision Sciences, Eastern Washington University

**Overview:**
Simulation is a complex process which parallels life in most respects – but can be managed and reflected on in ways that life cannot be so readily assessed or re-worked. This long workshop will introduce participants to a multi-layered approach to conducting the debriefing process. The process assumes that participants have some knowledge of simulation structures and processes and will use short activities to create experiences for post-action analysis.

Debriefing is a complex issue. To reduce that complexity this work introduces a 3x3 matrix aligning debriefing methods with timing of debriefing. Participants will experience activities and be able to try out various timings and methods for conducting debriefings. Debriefing can occur a) during an activity; b) immediately afterwards; c) when related activities are complete. Debriefing can be – a) practical and physical; b) verbal and discursive; c) written and analytical.

This workshop takes participants on a journey through the matrix of possibilities, using a range of activities to develop insights into which debriefing format best suits particular learning outcomes or organisational goals.
Tuesday 27 September 2016

Session 1 (90 mins)
0830-1000
Simulation Australasia Welcome

Welcome to Country
Conference Opening
Keynote Presentation
Speaker: Professor Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University

Morning Tea
1000-1030

Session 2 (90 mins)
1030-1200
Keynote Presentation
Speaker: Dr William McGaghie, Professor, Medical Education, Northwestern University Feinberg School of Medicine

Plenary 3
SimHealth Keynote
Meeting Room 206
SimTecT Workshop
Meeting Room 207
SimTecT Presentation and Free Papers
Meeting Room 208
SimTecT Free Papers
Meeting Room 209
ISAGA Free Papers
Meeting Room 210
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ISAGA Free Papers

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<td>1200-1330</td>
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<tr>
<td>International Guests Luncheon</td>
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<td>Closed Session - Invite Only</td>
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Lunch
1200-1330
### Schedule:

**Session 3**

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<th>Time</th>
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| 1500-1530 | **Meeting Room 206** SimTecT Workshop  
The Art of Ephemeral Science - From Participatory Modelling to Serious Gaming  
Keynote Presentation  
Speaker: Pascal Perez |
| 1530-1550 | **Meeting Room 207** SimHealth Free Papers  
Patient Safety  
637 Simulation to Inform and Improve Hospital Cleaning and Food Services Delivery in High Risk Patients: A Quality Improvement Initiative  
Nadine Sarah Gwendoline Anorn, Kids Simulation Australia |
| 1550-1580 | **Meeting Room 208** SimTecT Discussion Panel  
Exploring the Semantics and Pragmatics in Modelling and Simulation  
Chair: Jan Roche, Simulation Director, Chameleon Simulation Centre, University of Newcastle and Board Member, Simulation Australasia  
Panelists:  
Elyisabeth Leigh, Deputy Chair, Simulation Australasia  
Polar Morrison, Co-CEO, Bohemia Interactive Simulations  
Professor Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University |
| 1580-1630 | **Meeting Room 209** SimTecT Presentation and Free Papers  
Education and Virtual Training  
Speaker: Mike Aldinger, Mission Systems Sector Airborne C4ISR Systems Department Manager - LVC Mission Integration, Northrop Grumman  
Mobility Air Forces Brings Fuel to Distributed Mission Training  
719 Oral Presentation – Short Paper  
A Swart Analysis of Virtual Reality for Safety Training in the Context of Mining Industry  
Shiva Pedram, Student at Northrop Grumman  
168 Oral Presentation – Long Paper  
Optimizing Aircrew Training Schedules using a Tabu Search  
Ana Novak, Defence Science & Technology Group  
686 Oral Presentation – Short Paper  
Virtual Possibilities: Future Directions for Research and Training in Virtual and Augmented Reality  
Susannah Jane Whitney and Justin Fidock, Defence Science & Technology Group |
| 1630-1650 | **Meeting Room 210** SimHealth Workshop  
534 Working Memory is Extremely Limited! Creating Excellence in Scenario Development Through Understanding Cognitive Load Theory  
Panelist: Katie Walker, New York City Health+Hospitals  
529 Leading into Learning - Creating Contemporary, Authentic and Future Focused Simulation Scenarios  
Panelist: Michelle A Kelly, Curtin University  
446 Does Authenticity in Moulage Matter? Results of a Systematic Review  
Jessica Stokes-Paris, University of Newcastle  
551 Simulation as a Pivotal Learning Modality Within a Blended Delivery Curriculum for Post-Graduate High Acuity Nursing Programs  
Joanne Hardenberg, Faculty of Nursing and Midwifery, La Trobe Rural Health School  
452 Embedding Mental Health Simulation into an Undergraduate Nursing Curriculum  
Shirley McDougall, Curtin University |
| 1650-1700 | **Meeting Room 211** SimHealth Workshop  
525 Promoting Professionalism: Using Simulation to Develop Critical Reflection  
Andrew Stuart Lane, Sydney Medical School, Nepean Hospital  
368 Mapping the Current Uses and Future Strategies for Simulation-Based Education and Research in Melbourne Medical School MD Program  
Robert O’Brien, The University Of Melbourne  
638 Does Authenticity in Moulage Matter? Results of a Systematic Review  
Jessica Stokes-Paris, University of Newcastle  
446 Does Authenticity in Moulage Matter? Results of a Systematic Review  
Jessica Stokes-Paris, University of Newcastle  |
| 1700-1730 | **Meeting Room 212** SimHealth Workshop  
659 Simulation-Based and Future Strategies for Mapping the Current Uses and Future Strategies for Simulation-Based Education and Research in Melbourne Medical School MD Program  
Robert O’Brien, The University Of Melbourne  
525 Promoting Professionalism: Using Simulation to Develop Critical Reflection  
Andrew Stuart Lane, Sydney Medical School, Nepean Hospital  
446 Does Authenticity in Moulage Matter? Results of a Systematic Review  
Jessica Stokes-Paris, University of Newcastle |
| 1730-1750 | **Meeting Room 213** SimHealth Posters  
Curriculum Development  
532 Simulation-Based and Future Strategies for Mapping the Current Uses and Future Strategies for Simulation-Based Education and Research in Melbourne Medical School MD Program  
Robert O’Brien, The University Of Melbourne  |
| 1750-1756 | **Meeting Room 214** Industry Showcase, Exhibition Hall  
0 Fringe 30  
0 Fringe 30 |
### Session 4  
**1530-1700**  
**Customising Healthcare Utilising Modelling and Simulation**

**Overview:** Pioneers in their fields, each panellist utilises modelling and simulation in a number of different ways to advance individualised healthcare. Customising surgery through modelling procedures prior to operating, developing medical devices, imaging and robotics. Panellists will provide an insight into their research and developments to date and will discuss future applications and the benefits for patient safety.

**Panelists:**  
- Professor Sunita Chauhan  
  Professor, Department of Mechanical & Aerospace Engineering and Director, Mechatronics Program, Monash University  
- Professor Richard M. Satava, Professor Surgery, University of Washington Medical Center, and Senior Science Advisor, US Army Medical Research and Materiel Command in Fort Detrick, Maryland.

### Business Games  
707  
**Oral Presentation – Long Paper**  
**Simulation and Gaming in New Product Development**  
W.M. Ruvin M. Veerasinghe, Silindhorn International Institute of Technology, Thammasat University

490  
**Oral Presentation – Long Paper**  
**How Does Business Simulation Game Affect Student Learning Outcome? Path Analysis Evidence from China**  
Xiaoniu Zhu, Business School, China University of Political Science and Law

668  
**Oral Presentation – Long Paper**  
**Milk Product Supply Chain Management Game for Waste Reduction**  
Mizuho Sato, Keio University

696  
**Oral Presentation – Long Paper**  
**Identifying Moral and Ethics Underground for Business Ethics Teaching in a Simulation Context**  
Luiz Antonio Titton, Universidade de Sao Paulo

### A Immersive Experience into the Power of Stimulating Senses in Simulation  
589  
**A Immersive Experience into the Power of Stimulating Senses in Simulation**

### SysTeamsChange® - Simulation Game for Leadership and Change Management  
697  
**SysTeamsChange® - Simulation Game for Leadership and Change Management**

**Overview:** This workshop will discuss the design, facilitation and debriefing of the simulation game SysTeamsChange. Participants will be given the opportunity to have a short demo play experience. Case examples will be presented of the application of the game for university students, change management consulting in companies, executive training, leadership coaching and for the support of large transformation processes of organisations. The presenters will show how the game artefact (design in the small) is interconnected with the change of organisations and dysfunctional situations (design in the large) according to Klabbers terminology. They will discuss how the design was carried out according to the model of Duke and Geurts.

**Panelist:**  
Willy C. Kriz, University of Vorarlberg

### Evening  
**1700-1900**  
**SOCIAL FUNCTION:**  
Conference Welcome Reception  
Exhibition Hall, Bays 11 and 12

**1730-1830**  
**SimFringe Speed Networking**  
Exhibition Hall, Bays 11 and 12
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<tr>
<td>0730-0815</td>
<td>ASSH Paediatric Special Interest Group Meeting Chair: Dr Jenni Sokol Open Invitation to Delegates Suitable for Delegates interested in paediatric and/or neonatal simulation (no catering supplied)</td>
<td>ASSH Rural Special Interest Group Meeting Chair: Kelvie Britt Open Invitation to Delegates Suitable for Delegates interested in rural simulation settings (no catering supplied)</td>
<td>ASSH Simulated Patients Special Interest Group Meeting Chair: Bev Sutton Open Invitation to Delegates Suitable for Delegates interested in simulated patient methodology (no catering supplied)</td>
<td>ASSH Technology Special Interest Group Meeting Chair: Luke Wainwright Open Invitation to Delegates Suitable for Delegates interested in technology in simulation setting (no catering supplied)</td>
<td>Wednesday 28 September 2016</td>
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<tr>
<td>Plenary 3</td>
<td>SimTecT Keynote</td>
<td>SimHealth Free Papers</td>
<td>SimHealth Free Papers</td>
<td>ISAGA Free Papers</td>
<td>SimHealth Workshop</td>
<td>SimHealth Works in Progress</td>
<td>SimHealth Posters</td>
<td>ISAGA Workshop</td>
<td>Industry Showcase, Exhibition Hall</td>
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</table>
Morning Tea 1000-1030

Session 1 (90 mins)
0830-1000
Engineering Safety, Security and Efficiency through Fire and Evacuation Simulation
Chair: Michael McGarity, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman
Keynote Presentation
Speaker: Professor Eden Galea, Director, Fire Safety Engineering Group (FSEG) And Vice Chairman, International Association of Fire Safety Science, University of Greenwich
Overview: Advanced computer simulation of fire and evacuation is used in the design of modern structures to ensure enhanced safety - in the event of an emergency, security - providing protection from terrorist inspired incidents, and efficiency - in terms of flows of people in crowded spaces. This presentation will briefly discuss recent research to enhance fire and evacuation simulation including: evacuation of high-rise buildings, human behaviour in domestic fire situations and coupled fire and evacuation simulation. New applications in large urban-scale evacuation scenarios will also be considered.

Panel Discussion
Undergrad Nursing
573
Oral Presentation
Undergraduate Students’ Experiences of Being ‘In role’ in Simulated Nursing Practice as the Recipients and Providers of Nursing Care
Nancy Lorraine McNamara, Wakato Institute of Technology
476
Oral Presentation
A Staffed High-Technology/Fidelity Simulation Re-Do Station - Does it Increase Nursing Students’ Learning? - A Topic Review
Liz McNeill, School of Nursing & Midwifery, Flinders University
640
Oral Presentation
Six Steps to Coaching Oscar Performances from Under-Graduate Nursing Students in Simulation: An Action Research Study
Dr Owen Delane Eirian, Auckland University of Technology
479
Oral Presentation
Student Led Scenarios: The Undergraduate Student as Simulation Teacher
Andrea Thompson, Princess Alexandra Hospital, University of Queensland
IP
587
Oral Presentation
Medical Student Preparedness for Internship Improves After Interprofessional Simulation-Based ‘Ward Calls’ Course
Jane Torrie, The University of Auckland
453
Oral Presentation
Development of an Interprofessional Simulation (IP-sim) Program for Rural Based Medical Students Using the Plan Do Study Act Cycle
Varanessa Jane Ryan, Flinders University Rural Clinical School
561
Oral Presentation
Development, Delivery and Reflections of an Interprofessional Neonatal Simulation (NISP) and Simulation Train the Trainer (STTT) Program in India
Jenn Sokol, The Royal Children's Hospital
498
Oral Presentation
The Transformation of Paediatric Resuscitation Training in a Mixed Emergency Department Using Simulation
Ben Lawson, Children's Health Queensland353
Leadership
609
Oral Presentation
– Long Paper
Soft Interventions Hard: Simulation Leadership as Mediation of Choice Architectures
Cory Wright-Maley, St Mary’s University
683
Oral Presentation – Long Paper
From Brynania to Business: Adapting a Blended Peacebuilding Simulation Design for Leadership Education
Nancy Colleen Nowlan, Simon Fraser University
671
Oral Presentation – Long Paper
New Developments in Naval Collective Training - The Hobart Class Destroyer Command Team Trainer
Fritz Eduard Hardtke, Raytheon Australia
713
Oral Presentation – Long Paper
“Polyphonic Games” for Leadership Training
Natalia Isaac, Higher School of Economics, National Research University
492
Oral Presentation
The Perceived Effects on Final Year Medical Students’ Clinical Practice Following an Immersive Simulation Program on the Deteriorating Patient
Adile Louise Callaghan, Monash University Rural Health School
549
Oral Presentation
Development, Implementation and Evaluation of an Integrative Approach to Patient Centred Clinical Communication Education for First Year Nursing Students
Debra J Kiegaldie, University of Queensland
Panellist:
Robyn Dickie, Mater Health Services
556
A How to Guide: The Design, Implementation and Evaluation of 24 Hours of Concurrent Process and Educational Simulation Activities to Train and Orient Staff Prior to a New Hospital Opening
469
Oral Presentation
Rehearsing the Very Technical Skills of Communication in Breaking Bad News: Analysis of Medical Student Performance
Pam Harvey, Monash University Rural Health School
619
Oral Presentation
Using a Low-Resourse, High Fidelity Model to Enhance Skills, Knowledge and Confidence of Health Professionals When Performing Epistomiotomy in Practice
Grace Elizabeth Rose Crowe, The Royal Women’s Hospital
598
Oral Presentation
Estimating Content and Construct Validity for an Advanced Paediatric Laparoscopic Model (LIDD)
Sam Alexander, Monash University
601
Oral Presentation
A Pilot Study to Develop and Evaluate a First Person Perspective Video to Teach Medication Administration Skills to Bachelor of Nursing Students
Debra J Kiegaldie, Monash University
580
Oral Presentation
Self-inflicted Gunshot Wound: Realistic Simulated Gunshot Wound
Colin King, Clinical Skills Development Service
482
Oral Presentation
Bespoke Manikins for Trauma Simulation - Build your Own!
Cory Wright-Maley, St Mary’s University
535
Better for Less. Effective Chest Compressions Save Lives but They Can Also Save Money too.
Cory Wright-Maley, St Mary’s University
462
Faking It: The Features of a Simulator that Contribute to Perceived Realism
Dr Erin Wilson, Mater Health Services
664
The Inaugural NameGame Competition (Serious Games Elevator Pitch Competition)
Panelist: Adrian Webb, Australian Defence Simulation & Training Centre
667
The Naked Truth About Games and Simulation
Panelist: Adrian Webb, Australian Defence Simulation & Training Centre

Exhibition Hall Industry Showcase,
### Emergency Management Case Studies Panel

**Chair:** Mike Brennan, Chair, Simulation Australasia

**Overview:** This Emergency Management Case Studies Panel is an opportunity to hear from leaders in the sector who will describe case studies and examples of investment in simulation, the business case that led to that investment, lessons learned, challenges and future expectations.

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<th>Speaker(s)</th>
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<td>Emergency Management Case Studies Panel</td>
<td>Mike Brennan, Chair, Simulation Australasia</td>
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<tr>
<td>1245-1330</td>
<td>Open Invitation to Delegates</td>
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### Lunch

**1200-1330**

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<td>Lunch</td>
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### Plenary 3

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<tr>
<td>1330-1335</td>
<td>Plenary 3</td>
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### SimHealth Keynote

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>1335-1400</td>
<td>SimHealth Keynote</td>
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### ISAGA Workshop

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>1400-1430</td>
<td>ISAGA Workshop</td>
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### ISAGA Free Papers

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tr>
<td>1430-1450</td>
<td>ISAGA Free Papers</td>
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### SimTecT Free Papers

<table>
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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1450-1510</td>
<td>SimTecT Free Papers</td>
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### SimTecT Panel

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1510-1530</td>
<td>SimTecT Panel</td>
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### Industry Showcase, Exhibition Hall

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<th>Speaker(s)</th>
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<tr>
<td>1530-1540</td>
<td>Industry Showcase, Exhibition Hall</td>
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### SimHealth Session

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<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>1540-1550</td>
<td>SimHealth Session</td>
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</table>
Session 3 (90 mins)

**Afternoon Tea**

**Keynote Presentation**

**Speaker:** Dr. Adam Cheng, Director, Research and Development, KidSIM Simulation Program, Alberta Children’s Hospital, Department of Paediatrics, University of Calgary

**Overview:** This workshop will look at how gaming analytics are being used by developers in making key decisions for changes in games. It will look at how analytics could help in more than just creating compelling and balanced gameplay. How could simulation, which is a large creator and consumer of big data, use/collect this information in a less invasive, more natural way that gives people better understanding of their systems? Analytics are used to see patterns, names and usage of games. This is already being used in recruitment games, health games just to name a few.

**Panelist:** Adrian Webb, Australian Defence Simulation & Training Centre

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**Application of Modelling and Simulation**

**Chair:** Dr. Ray Matthews, Co-Scientific Convenor, SimTecT and Postdoctoral Research Fellow, Appleton Institute, CDU University

- **Oral Presentation – Long Paper**
  - Modelling the Complexity of RAN Training Pipelines: A System Dynamics Approach
    - Victoria Jitrova, Royal Australian Navy

- **Oral Presentation – Short Paper**
  - Comparing the Clinical Impact of Simulation Education approaches on nurses’ ability to detect and manage Patient Deterioration.
    - Angela Jayne McKay, Student at University Tasmania

**Training and Skills Transfer**

**Chair:** Dr. Arjun Nawed, Scientific Convenor, SimTecT and Research Fellow, CDU University

- **Oral Presentation – Short Paper**
  - The Janus Track: A Conceptual Augmented-Virtual Reality (A-VR) Learning Aid for Novice Train Drivers
    - Ganesh Balakrishnan, Student at CDU University

**Verification, Validation and Accreditation**

**Panelists:** Jawahar Bhalla, Manager, Systems & Technologies, CAE Asia Pacific, CAE Australia and Chair, Professional Development Committee, Simulation Australasia

- **Oral Presentation – Long Paper**
  - Social Simulation for Emergency Management
    - Dr. Ray Matthews, Technology Group AU Defence Science & Technology Group

- **Oral Presentation – Long Paper**
  - Securing Multiple Assurance Layered Approach
    - Angela Al-Chareb, Student at CQUniversity

**Simulation/Week Meeting**

**Open Invitation to Delegates**

**Meeting Room 209**

- **Meeting Room 209**
  - SimHealth Free Papers

- **Meeting Room 210**
  - SimHealth Free Papers

- **SimTecT Workshop**
  - SimHealth Workshop

- **SimHealth Works in Progress**
  - SimHealth Posters

- **Meeting Room 217**
  - Meeting Room 218

- **Meeting Room 219**
  - ISAGA Free Papers

**Industry Showcase, Exhibition Hall**

**Panelist:** Peter John Moon, Ballarat Technologies
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<tr>
<th>Session 4 (90 mins)</th>
<th>1530-1700</th>
<th>Distributed Mission Planning</th>
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<tbody>
<tr>
<td>Chair</td>
<td>Michael McGarthy, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman</td>
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<tr>
<td>Panelist:</td>
<td>Shawn Par, CEO and Founder of Calytrix Technologies and Chair, Defence Specialist Community, Simulation Australasia</td>
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<tr>
<td>Technology</td>
<td>481</td>
<td>Oral Presentation Better BLS - Technology and Educational Innovation</td>
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<td>482</td>
<td>Tricia Plotto, Queensland Health</td>
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<td>483</td>
<td>Oral Presentation Using a Custom Built Birth Simulator as an Education Tool to Teach Manual Rotation to Midwives and Obstetricians</td>
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<td>484</td>
<td>Sarah Catherine McDonald, The University of Sydney</td>
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<td>485</td>
<td>Oral Presentation Development of an Innovative High Fidelity Paediatric ECMO Simulator</td>
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<td>486</td>
<td>Nadine Sarah Gwendoline Alcom, Kids Simulation Australia</td>
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<td>487</td>
<td>Oral Presentation Google Glass Wearable Technology Project - A Point of Departure</td>
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<td>488</td>
<td>Adam Alexander Osmanski, Sydney University</td>
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<tr>
<td>Leadership / Debriefing</td>
<td>540</td>
<td>Teamwork: Why Games are a Fast Way to Develop Knowledge of Human Factors</td>
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<td>541</td>
<td>Chair: Nicole Jones de Rooy, SimTecT Convenor</td>
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<td>542</td>
<td>Panelist: Associate Professor, Marcus Watson, Executive Director, Clinical Skills Development Service</td>
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<tr>
<td>Technology</td>
<td>543</td>
<td>Developing an Authentic Simulation to Enhance Clinical and Technical Skills for Diagnostic Cytology Students</td>
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<td>544</td>
<td>Alina Miranda, School of Biomedical Science, Curtin University</td>
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<td>545</td>
<td>Oral Presentation Exploring the Paradigm of Leadership Within Collaborative Teams: How can Simulation Shift the Traditional Paradigm</td>
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<td>546</td>
<td>Tina Holmes, University of New South Wales</td>
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<td>547</td>
<td>Oral Presentation Teaching and Debriefing Practices of Simulation Instructors</td>
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<td>548</td>
<td>Julian Van Dijk, St Vincent's Hospital</td>
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<td>549</td>
<td>Oral Presentation Improvement in Emergency Department Length of Stay using a Simulation Based Clinical Leadership in Teams Course: a Longitudinal Before-After Interventional Study</td>
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<td>550</td>
<td>Sinead Ekiland Husebye, Department of Health Studies, University of Stavanger</td>
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**SOCIAL FUNCTION:**
Shawn Parr, Panellist:
Chief Engineer, Northrop Grumman
Co-Convenor, SimTecT and Chair, Defence Specialist Community, Simulation Australasia

**Victory Room, Etihad Stadium**
**Simulation Australasia Annual Awards Dinner**
**1830-2330**

**600**
The Simulated Learning Environment Quality Framework (SLE QF) - What it is and What it Means for You
Panelist: Richard Huynmans, Raven Consulting Group

**568**
PRE-Scripted Debriefing for Paediatric Simulation Associated with Resuscitation Education (PREPARE)
Peter James Snelling, Children's Health Queensland

**564**
What's in a Name? - Embedding a Simulation Service within a Healthcare Institution Victoria Brazil, Bond University Gold Coast Health Service

**562**
The First 3 Minutes "Implementation of a Novel Program to Improve Basic Life Support Training" Jenny Hough, The Royal Children's Hospital

**561**
Translation of an Effective Novel BLS Training Program into an ALS Training Program: the First 5 Minutes: Inter-Professional team Paediatric Advanced Life Support Training’ Joanne McKittrick, The Royal Children's Hospital

**604**
Interim Results from the Laparoscopic Simulation Skills Program Nicholas Marlow, Royal Australian College of Surgeons

**474**
Attitudes Towards Simulation Training for Surgical Skill Development Erin Wilson, Mater Research, University of Queensland School of Medicine

**541**
Simulation Based Training Program to Improve Delivery of the Impacted Fetal Head at Caesarian Section Sarah Janssens, Mater Mothers' Hospital

**542**
Simulation Based Training Program to Improve the Impact of Simulation Based Training on Environmental Remediation Experience Megan L Phillips, University of Technology Sydney

**475**
Intentional Small-Scale Disasters: Simulating Oil Spills to Develop Hands-on Environmental Remediation Experience Mahesh Prakash, CSIRO Data61

**578**
Professional team Paediatric Advanced Life Support Training’ Joanne McKittrick, The Royal Children's Hospital

**577**
Translation of an Effective Novel BLS Training Program into an ALS Training Program: the First 5 Minutes: Inter-Professional team Paediatric Advanced Life Support Training’ Joanne McKittrick, The Royal Children's Hospital

**474**
Attitudes Towards Simulation Training for Surgical Skill Development Erin Wilson, Mater Research, University of Queensland School of Medicine

**541**
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**578**
Professional team Paediatric Advanced Life Support Training’ Joanne McKittrick, The Royal Children's Hospital
Leaders in Reality: Virtual, Augmented and Mixed

Overview:
The rapid advancement of virtual reality (VR), augmented reality (AR), and mixed reality (MR) technologies has led to an explosion of interest for its use in many industries, such as gaming, health, education and Defence. However, the technology is still in its infancy; with different industries utilising, and planning to utilise, the existing technologies in different ways. This hands-on panel aims to bring together leaders from different industries that are using VR, AR and MR. The overall objective of the panel is to promote cross-industry collaboration and spark fresh solutions to overcome challenges faced by the leaders of their respective industries.

Panellist:
Ronan McInerney, Defence Science & Technology Group
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<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>1030-1200</td>
<td><strong>Keynote Presentation</strong>&lt;br&gt;Speaker: Carrie Hamilton, Director, Education, Training and Innovation, SimComm Academy</td>
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</table>
| 1030-1200 | **Session 2**<br>679 High Resolution Point Clouds - Laser Scanning Techniques for Virtual Environments and Engineering Data Capture<br>Panelist: Allan Geddes, Royal Australian Navy<br>Interoperability Chair: Michael McGarity, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman<br>Panelists: Jawahar Bhalla, Manager, Systems & Technologies, CAE Asia Pacific, CAE Australia and Chair, Professional Development Committee, Simulation Australasia<br>Björn Möller, Vice President, Pitch Technologies<br>Dr Tim Pokorny, CTO, Calytrix Technologies<br>New Research & Opportunities 723<br>Oral Presentation - Short Poster Pitfall for Debriefing Games and Simulation Bill Roungas, Student at Delft University of Technology<br>571<br>Oral Presentation - Long Paper Toward Improving Medical Device Cybersecurity Martin R Styz, ProSource<br>443<br>Oral Presentation - Short Paper Launching an Offensive Against the Human Avatars Peter Moon, Ballarat Technologies<br>572<br>Oral Presentation - Short Paper What About the Rest of Us - Thinking about Accessibility and Online Simulations Melanie Worrall, The Klevar Group<br>528<br>Simulation Game, "Project PAL: Hawaii" (Continued)<br>Speaker: LTCOL Frédéric Martinez<br>663<br>Boss Level: Industries Open for Business<br>Overview: As an industry that creates billions of dollars, and overshadows other conventional screen mediums, what makes the gaming industry so successful? This panel will look to show people about the business that is the games industry, talk about some of the success stories from around the world and locally as well. The panel will look at current incentives for the games industry and demonstrate that games are not all just created by 18-20 year olds within basements. How can a small developers compete with the likes of Global primes? What incentives are there within simulation fields for developers, and what benefits can come out of working on projects that aren't considered "games"? Participants will look at the loss of talent to overseas within both fields, we need to work together to solve this, but how can we do this?<br>Panelist: Adrian Webb, Australian Defence Simulation & Training Centre<br>1200-1330 | **Lunch**<br>1230-1330 <br>Simulation Australasia Annual General Meeting<br>Open Invitation to Delegates<br>1230-1330 <br>ISAGA Annual General Meeting<br>Open Invitation to Delegates<br>Meeting Room 206: SimTec Keynote<br>Meeting Room 207: SimHealth Free Papers<br>Meeting Room 208: SimHealth Free Papers<br>Meeting Room 209: ISAGA Workshop<br>Meeting Room 210: SimHealth Workshop<br>Meeting Room 211: SimHealth Workshop<br>Meeting Room 212: SimHealth Workshop<br>Meeting Room 213: SimHealth Posters<br>Industry Showcase, Exhibition Hall
### Session 3 (90 mins)

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<tr>
<td>1330-1500</td>
<td><strong>Network Attack Modelling for Predictive Cyber Situation Awareness</strong></td>
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|          | Chair: Michael McGarty, University of Technology, Rochester Institute of Technology, Engineer, Rochester Institute of Technology | **Tea**
|          | Keynote Presentation: Dr Shannel Jay Yang, Professor and Head of Computer Engineering, Kase Gleason College of Engineering, Rochester Institute of Technology | **Session 3**
|          | Speaker: Dr Shannel Jay Yang, Professor and Head of Computer Engineering, Kase Gleason College of Engineering, Rochester Institute of Technology | 1530-1630
|          | Overview: As network attacks continue to evolve and become more sophisticated, automating the process of recognizing attack strategies in their early stage and prioritizing defence resources are keys to resilient cyber operation. Advances in network attack modelling draws from probabilistic graph models, social network analysis, and simulation. This talk will provide an overview on some of these advances that enable predictive instead of reactive network defence. |
|          | Panel Discussion: Training the Future Cyber Workforce | 1500-1530
|          | Panelists: Prof Saeid Nahavandi, LiCol Lisa Davidson | **Curriculum Development**
|          | Surgical / Simulation Education                                      |
| 621      | Comparison of the Non-Technical Skills of Surgical Trainees and Experienced Surgeons | **Simulated Patients**
|          | Nicholas Marlow, Royal Australasian College of Surgeons               |
| 547      | Application of Advanced Surgical Simulation to a Limited-Resource Setting in a Developing Country | 475
|          | Ramsey Mark Nazariq, Monash Children’s Hospital                      |
|          | Sanjeev Naguleswaran, GSPoCtal Systems                               |
| 539      | Does Immersive Simulation-Based Education (ISBE) Assist in the Demonstration of Understanding of the Importance of Teamwork and Communication in Healthcare for Senior Nursing Students | 665
|          | Studying On-line Jonathan Mould, Curtin University                    |
| 573      | Oral Presentation Depth of Field: Exploring Ageing - Evaluation of a Digital Reflective Learning Resource | **Overview:** This workshop looks to show people the diversity of serious games within the simulation industry and its use from past, present and future endeavours within various fields. It will look at Defence/Military, Education, Health/Aging and Business/Recruitment. The workshop will highlight successful ventures from each of these fields using games as a new device to portray their message. The presenters are all currently using games techniques and/or technologies within the field, and will aim to give participants an insight into why games were chosen over more traditional solutions, and if there has been any qualitative research completed to determine the success/failure of moving to the new medium. |
|          | Neil Tulle, Menzies Health Institute Queensland, Griffith University  |
|          | **537** Creating a Simulation Alliance or Network: Your "How to" Guide |
|          | Panelist: Gerard Ails, Laerdal | **553** Rapid Cycle Deliberate Practice Compared with Immersive Simulation and Standard Debriefing for Inter-Professional Simulation-Based Education |
|          | Panelist: K.T Waxman, University of San Francisco |

### Afternoon Tea

### Session 4 (90 mins)

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<tbody>
<tr>
<td>1515-1530</td>
<td><strong>Joint Closing Plenary</strong></td>
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<td><strong>581</strong> Simulation Coordinator Training (SCT), Un-Locking the Cupboard Davin Michael Arthur, Queensland Health</td>
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<td></td>
<td><strong>547</strong> The DELTA Approach to Basic Life Support Training Using an Automated Debriefing Tool Kellei Brit, Deakin University</td>
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|          | **555** High Volume Nursing Assessments with High-Fidelity Team Simulation: | **Assessment / Faculty Development**
|          | A Topic Review Nina Swertsen, Flinders University | **565** Benefits of Simulation Training for Mental Health Staff following Critical Events Mary Leanne Curran, Mackay Hospital and Health Service |
|          | **642** Enhancing Nursing Students’ Competence through Simulation Based Health Assessment Program Sue Lai Wong, The Open University of Hong Kong |
|          | **596** Using Simulation to Embed the Importance of Comprehensive Nursing Documentation Joanna Kelly Purdue, Calvary Mater Newcastle |