Meeting Room 214

ISAGA Master Class

**Urban Gaming for Serious Planning**

**Presenter:** Prof. Pascal Perez, Director, SMART Infrastructure Facility, Faculty of Engineering & Information Sciences, University of Wollongong

**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, trialling and completion process involved in creating an entirely new game.

**Cost:** $265

Please note that no lunch will be provided at the beginning of this Master Class

Meeting Room 215

SimHealth Master Class

**Working with Children in Simulation: The Practicalities and Ethics of Engaging with Simulated Patients Who are Children**

**Presenter:** Carrie Hamilton, Director, Education, Training and Innovation, SimComm Academy

**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 end of this Master Class

Meeting Room 217

SimTecT Master Class

**Designing a Medical Education Translational Science Research Program**

**Presenter:** Dr William McGaghie, Professor, Medical Education, Northwestern University Feinberg School of Medicine

**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 end of this Master Class

Meeting Room 218

SimHealth Master Class

**Leading in Context – Understanding Conditions of Inherent Uncertainty**

**Presenter:** Prof Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University

**Overview:** The myth of the great leader pervades 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 rather than the result of any innate or replicable qualities. Snowden’s award winning MBR 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 deterministic 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 antidote to the simplistic recipes of too many approaches to leadership development, the Master Class 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

Meeting Room 219

SimTecT Master Class

**Network Attack Simulation: An Enabler for Cyber Situational Awareness Analytics and Training**

**Presenter:** Dr Shancieh Jay Yang, Professor and Head of Computer Engineering, Kate Gleason College of Engineering, Rochester Institute of Technology

**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 session 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 end of this Master Class

Meeting Room 220

SimHealth Master Class

**Promoting Excellence via Augmented Reflective Learning in Simulation (PEARLS) – A Blended Approach to Debriefing**

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

**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 end of this Master Class
### ISAGA Workshop

#### Session 1 (90 mins)
**Monday 26 September 2016 (90 mins)**

**Meeting Room 206**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>0900-1045</td>
<td>ISAGA Opening</td>
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<tr>
<td>1045-1100</td>
<td>ISAGA Membership Meeting</td>
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**Morning Tea**

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<th>Event</th>
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<tbody>
<tr>
<td>1045-1100</td>
<td>ISAGA Opening</td>
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<tr>
<td>1100-1245</td>
<td>ISAGA Workshop</td>
</tr>
</tbody>
</table>

**Generating Safe Error Rich Training Environments**

- **Panelist:** 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 errors and address failure. Other industries that rely on high frequency of interpersonal 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 fulfill the brief of a psychologically safe simulation.

**Lunch**

<table>
<thead>
<tr>
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<tr>
<td>1245-1315</td>
<td>ISAGA Free Papers</td>
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**Meeting Room 206**

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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>1315-1500</td>
<td>ISAGA Workshop</td>
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</tbody>
</table>

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

- **Panelist:** 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 workshop 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.

**Afternoon Tea**

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<th>Time</th>
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<tr>
<td>1506-1615</td>
<td>ISAGA Free Papers</td>
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**Meeting Room 206**

<table>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1515-1700</td>
<td>ISAGA Workshop</td>
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**Maintaining the Suspense - Facilitating Simulations so that the Debriefing Continues the Learning**

(continued)

**Meeting Room 208**

<table>
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<th>Time</th>
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<tr>
<td>1700-1900</td>
<td>ISAGA Opening</td>
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<tr>
<td>1900-2000</td>
<td>ISAGA Workshop</td>
</tr>
</tbody>
</table>

**Simulation and Organisations**

- **Panelist:** Martin Wardaszko, ISAGA
- **Overview:**
  - The session takes a holistic approach to scaling project-oriented problem-based learning in real-world settings. It explores the design and application of games and simulations in diverse contexts, from higher education to industry and beyond.

**Building Strategies for Organisational Development with Simulation Games**

- **Panelist:** Benta Ann Rowe, TH Köln (Technical University of Cologne)
- **Overview:**
  - This workshop focuses on using simulation games to build strategies for organisational development. Participants will learn how to design effective simulation games that can be used to enhance team-building and problem-solving skills.

**Assessment and Evaluation of Learning via Simulation**

- **Panelist:** Dr. Elysabeth Leigh, FutureSearch
- **Overview:**
  - This workshop explores the assessment and evaluation of learning via simulation, focusing on how to measure the effectiveness of training programs and how to improve the design of simulations to achieve specific learning outcomes.
Tuesday 27
Lunch
(90 m
Session 2
1000-1030
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
ISAGA Free Papers
Meeting Room 216
ISAGA Free Papers
Meeting Room 217
ISAGA Workshop
Industry Showcase, Exhibition Hall
Lunch
1200-1330
International Guests Lunch
Closed Session - Invite Only

Plenary 3
Simulation Australasia Welcome
Welcome to Country
Conference Opening
Keynote Presentation
Speaker: Prof Dave Sowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University

Session 1 (90 mins) 0830-1000

Session 2 (90 mins) 1010-1200

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
ISAGA Free Papers
Meeting Room 216
ISAGA Free Papers
Meeting Room 217
ISAGA Workshop
Industry Showcase, Exhibition Hall

Keynote Presentation
Speaker: Dr William McGaghie, Professor, Medical Education, Northwestern University Feinberg School of Medicine

Human Dimensions in Simulation
Chair: Dr Arjum Naweed, Scientific Convener, SimTecT and Research Fellow, QLUniversity
Speakers: Carolyn Unsworth, Professor Occupational Therapy, QLUniversity
Pam Ross, Occupational Therapist, Epworth Hospital and Monash University

Simulating Driving for use with Older and/or Disabled Adults: What Works Best?
588 Oral Presentation – Short Paper
Stress Analysis of Human Living Achillleas Tendon Wencke Hansen, Student at Menzies Health Institute Queensland, Griffith University

567 Oral Presentation – Long Paper
Making Virtual Sense: Display Type and Influence SensaSmoking in Virtual Environments Sarah Hibbard, Consultam Technology Pty Ltd

546 Oral Presentation – Long Paper
Exploring Avatar Facial Fidelity and Emotional Expressions on Observer Perception of the Uncanny Valley Karen Blackmore, University of Newcastle

522 Oral Presentation – Short Paper
Addressing Challenges in Planning in Multimodal Transportation Nodes with Simulation Games Maria Freese, German Aerospace Center (DLR), Institute of Flight Guidance

521 Oral Presentation – Long Paper
Supporting Energy Efficient Train Operation by Using Gamification to Motivate Train Drivers Magda Zoya Krysanova, Kazan Federal University

520 Oral Presentation – Long Paper
A Qualitative Evaluation of the Role of Virtual Reality as a Safety Training Tool for the Mining Industry Shava Pedram

519 Oral Presentation – Short Paper
A New Logical Simulation Model for Performance and Risk Analysis of Six Sigma AI Farah, Ahmed, University of New South Wales

518 Oral Presentation – Short Paper
Fast Cascaded Shadows in Synthentic Environment Andrei Kirianov, University of New South Wales @ Australian Defence Force Academy

509 Oral Presentation – Short Paper
An AnyLogic Simulation Model for Performance and Risk Analysis of Six Sigma AI Farah, Ahmed, University of New South Wales

508 Oral Presentation – Short Paper
Transport and Mining
625 Oral Presentation – Long Paper
Addressing Challenges in Planning in Multimodal Transportation Nodes with Simulation Games Maria Freese, German Aerospace Center (DLR), Institute of Flight Guidance

712 Oral Presentation – Long Paper
Randomised Plenary

726 Oral Presentation – Long Paper
3D Model Data Acquisition in the Royal Australian Navy: A System Analysis using the Iceberg Method Allan Geddis, Royal Australian Navy

676 Oral Presentation – Long Paper
Software Design
Chair: Michael McGarity, Convenor, SimTecT and Chief Engineer, Northrop Grumman

674 Oral Presentation – Long Paper
Emerging Architectural Requirements for Defence Distributed Simulations Steven Foley & Duncan Fletcher, Australian Defence Simulation & Training Centre

426 Oral Presentation – Long Paper
The Game of Simulation Development Todd Mason, Northern Health

425 Oral Presentation – Long Paper
An Introduction to Using Docker in Support of HLA Federations Anthony Cramp, Defence Science & Technology Group

531 Oral Presentation – Long Paper
Using the BDI Model of Agency in a Combat Decision Support System Salma Nooru

Overview:
This workshop provides an opportunity for the finalists to explain their game, and give them a chance to show a short video to the audience. The presentation will explain how they came to enter into the Serious Games Showcase & Challenge and their ideas behind making the game for more than just entertainment.

In this workshop, attendees’ will be invited to come and listen to previous Australasia winners of the Serious Games Showcase & Challenge. You will hear about their trip to Orlando, their experiences while overseas and some of the opportunities that have arisen since being declared the Australasian winners.

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The Art of the Ephemereral Science - From Participatory Modelling to Serious Gaming

Keynote Presentation

Speaker: Pascal Perez

Overview: This keynote will explore how the convergence of socio-environmental system modelling and serious gaming is challenging positivist and reductionist viewpoints. This convergence creates a far more ambitious and effective way for users of computer models to better inform policy decisions and contribute to societal awareness. The accompanying shift from expert system to mediating object will also force us to reassess the intrinsic value of computer models and their temporality.

Socio-environmental system (SES) modelling has long been a prominent paradigm that inherently acknowledges the capacity of designer(s) to define the boundaries of the system under study and to observe its intimate workings. However, sociologists and philosophers are questioning the positivist status quo that dominates these people-centric models in general and agent-based simulations in particular. From a fringe element in the late 90s, constructivism is becoming a dominant framework for modern modelling: building models of people, with people, for people. This presentation will track some of these changes and explore the implications of factors influencing the trends in socio-technical modelling of human society.

661 Simulating Safety in Simulation - a Live Immersive Multi-Disciplinary Simulation and Workshop on Creating a Safe Container

657 Simulation to Inform and Improve Hospital Cleaning and Food Services Delivery in High Risk Patients: A Quality Improvement Initiative

612 Using Simulation to Support Practice Change in Workflows with the Introduction of Electronic Medication Management (eMM)

593 Pilot Testing of a National Multidisciplinary Operating Room Simulation Intervention to Improve Patient Safety

487 Is the Assessment of Physiotherapy Practice Tool Valid in Clinical Simulation?

Panel: Mike Aldinger, Mission Systems Sector, Airborne C4ISR Systems; Department Manager - LVC Mission Integration; Norrgan Grahmann, Long Presentation - Mobility Air Force Space Fuel to Distributed Mission Training

Speaker: Prof Dave Snowden, Chief Scientist & Technology, Bohemia Interactive; Peter Morrison, Co-CEO, Bahama Interactive Simulations; Prof Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University; Dr Elissabeth Leigh, FutureSearch

Panelists: Prof Edwin Galea, Director, Fire Safety Engineering Group (FSEG) and Vice Chairman, International Association of Fire Safety Science, University of Greenwich; Deanna Hutchinson, Founder, Diverse Disruption; Dr Elissabeth Leigh, FutureSearch; Peter Morrison, Co-CEO, Bahama Interactive Simulations Group; Dr Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University

Panel: Katie Walker, New York City Health Hospitals; Kate Walker, New York City Health Hospitals; FutureSearch;

Panelists: Michelle A Kelly, Curtin University; Kate Walker, New York City Health Hospitals; FutureSearch; Mike Aldinger, Mission Systems Sector, Airborne C4ISR Systems; Department Manager - LVC Mission Integration; Norrgan Grahmann, Long Presentation - Mobility Air Force Space Fuel to Distributed Mission Training

Panelists: Michelle A Kelly, Curtin University; Kate Walker, New York City Health Hospitals; FutureSearch; Mike Aldinger, Mission Systems Sector, Airborne C4ISR Systems; Department Manager - LVC Mission Integration; Norrgan Grahmann, Long Presentation - Mobility Air Force Space Fuel to Distributed Mission Training

Panel: Katie Walker, New York City Health Hospitals; Kate Walker, New York City Health Hospitals; FutureSearch; Mike Aldinger, Mission Systems Sector, Airborne C4ISR Systems; Department Manager - LVC Mission Integration; Norrgan Grahmann, Long Presentation - Mobility Air Force Space Fuel to Distributed Mission Training
Overview:
Pioneers in their fields, each panellist is at the frontier of modelling and simulation to advance individualised healthcare. From intuitive visual interfaces for interacting with healthcare data, to 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.

Panellists:
Prof Peter Barlis
Interventional Cardiologist
St Vincent’s Hospital, Honorary, Melbourne Medical School
Honorary, Mechanical Engineering
University of Washington

Professor Surgery,
Prof Richard M. Satava,
Interventions
Integrated Surgical
Role of Customized
Short Presentation
Monash University
Mechatronics Program,
Engineering and
Mechanics Program,
Monash University

Nancy Colleen Nowlan,
Simulation Design for
Leadership Education
Nancy Colleen Nowlan,
Simon Fraser University

Panellists:
Sunita Chauhan,
Professor, Department of
Mechanical & Aerospace Engineering and Director,
Mechantronics Program, Monash University

Overview:
This workshop will provide an understanding of the rapidly developing spatial technology field and the potential uses in Defence and across engineering and simulation including serious games. Laser scanning techniques have improved to the point where photorealistic point clouds of real world phenomenon can be easily captured. This provides and extremely fast, accurate and detailed solution to capturing spatial data. The scan data can be measured directly, or transformed into other forms of model data for use in analysis and simulation software – it is highly flexible and reusable. Laser scanning can also be used to quickly and cheaply confirm conformance to design specifications and can also be used to assess and document how a system deforms and changes over operational life. The workshop will illustrate the use of a terrestrial laser scanner, and then follow through to examples of raw, individual scan data. A demonstration of the methods of processing this data into larger point clouds will then take place and a number of finished examples will be shown, including large Navy platforms such as the new Canberra class Landing Helicopter Dock (LHD). A 3D Oculus Rift system will be used to demonstrate point clouds embedded in virtual worlds. This showcases the use of cutting edge technology that enables extremely large data sets (Terabytes) to be loaded without any noticeable delay.

Panellist:
Allan Geddes, Royal Australian Navy

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 Gauert.

Panellist:
Willy C. Kriz, University of Vorarlberg

Overview:
This workshop will provide an understanding of the rapidly developing spatial technology field and the potential uses in Defence and across engineering and simulation including serious games. Laser scanning techniques have improved to the point where photorealistic point clouds of real world phenomenon can be easily captured. This provides and extremely fast, accurate and detailed solution to capturing spatial data. The scan data can be measured directly, or transformed into other forms of model data for use in analysis and simulation software – it is highly flexible and reusable. Laser scanning can also be used to quickly and cheaply confirm conformance to design specifications and can also be used to assess and document how a system deforms and changes over operational life. The workshop will illustrate the use of a terrestrial laser scanner, and then follow through to examples of raw, individual scan data. A demonstration of the methods of processing this data into larger point clouds will then take place and a number of finished examples will be shown, including large Navy platforms such as the new Canberra class Landing Helicopter Dock (LHD). A 3D Oculus Rift system will be used to demonstrate point clouds embedded in virtual worlds. This showcases the use of cutting edge technology that enables extremely large data sets (Terabytes) to be loaded without any noticeable delay.

Panellist:
Laura Vesey, Laerdal
Undergraduate Simulation

513 Oral Presentation
Undergraduate Students’ Experiences of being in ‘role’ in Simulated Nursing Practice as the Recipients and Providers of Nursing Care
Nancy Lorraine McNamara, Waikato Institute of Technology

46 Oral Presentation
A Staffed High Technology/Fidelity Simulation Re-Do Station - Does it Increase Nursing Students’ Learning? - A Topic Review
Liz McNall, School of Nursing & Midwifery, Flinders University

492 Oral Presentation
The Perceived Effects on Final Year Medical Students’ Clinical Practice Following an Immersive Simulation Program on the Deteriorating Patient
Adelle 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 Kiegelaar, Holmegeorge Institute

715 Simulation: A Profession?
Chair: Jan Roche
As wide use of simulation across industry is rapidly developing, persons involved in the industry work in an area of change and innovation where simulations used. Increasingly industry bodies, specialist organisation and tertiary studies centres have added simulation courses to the available qualifications. The diversity of course curriculum results from the variety of accreditation processes, multitude of design, execution and delivery approaches and the complexity of risks associated with simulation. These persons have the special knowledge and skills, which is a widely recognised body of learning derived from research, education and training at a higher level, and is recognised by the public as such. The question remaining is there an expert group identified as a simulation professional with skills transferable across industries nationally or internationally. This workshop will explore expert opinion using a Delphi technique to establish a shared understanding of the concepts and issues of professionalism and simulation.
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<th>Session 2 (90 mins)</th>
<th>Venue</th>
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<td>Morning Tea</td>
<td>SimHealth Free Papers</td>
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<tr>
<td>1000-1030</td>
<td>Emergency Management Case Studies Panel</td>
<td>Joint SimTecT and ISAGA Panel</td>
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<tr>
<td>1030</td>
<td>Plenary 3</td>
<td>Meeting Room 207</td>
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<tr>
<td>1030-1200</td>
<td>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.</td>
<td>SimTecT Presentation and Free Papers</td>
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<td>Panellists: Mark Crosswell, Director General, Emergency Management Australia</td>
<td>Meeting Room 208</td>
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<td>Paul Davis, Manager, Volunteer Development and Innovation, Emergency Management Victoria</td>
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<td>Technology</td>
<td>Meeting Room 216</td>
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<td></td>
<td>630 Oral Presentation: Innovating a Pediatric Robotic Motion Arm for Neurological Sensory Feedback Response</td>
<td>SimHealth Workshop</td>
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<td>670 Oral Presentation: Simulating to Stimulate Thomas Hollett, Student at University of South Australia</td>
<td>SimHealth Posters</td>
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<td>620 Oral Presentation: A Modular Approach to Dynamic Modelling for Capability Planning and Readiness</td>
<td>SimTecT Panel</td>
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<td>458 Cultural Aligam: Diversity Within Sim-Teams and Diverse Student Cohorts - How to Achieve Best Learning Outcomes?</td>
<td>Meeting Room 219</td>
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<td>457 Evaluation of the Austin MET-Sim Project: A Self-Improving, Inter-Professional Medical Emergency Team Simulation Education Program</td>
<td>Industry Showcase, Exhibition Hall</td>
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<td>541 An Interprofessional Transition Program: Using Simulation to Support and Train Novice Health Care Teams</td>
<td>Industry Showcase, Exhibition Hall</td>
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<tr>
<td></td>
<td>578 Emergency Masterclass: An Interprofessional Simulation Education Program for Rural Clinicians</td>
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<td>594 Loading Thomas up the Garden Path: Developing an Inter-Professional Audio Visual Simulated Learning Resource</td>
<td>Industry Showcase, Exhibition Hall</td>
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<td>655 Interprofessional Clinical Leadership for Nurses of the Future</td>
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<td>643 Another Kind of Hybrid: Can an Online Adaptive Learning Platform be Successfully Integrated into a Patient-Centred Simulated Learning Environment?</td>
<td>Industry Showcase, Exhibition Hall</td>
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<tr>
<td></td>
<td>634 Developing OSCE and Simulation in Psychology - a novel approach to Simulation based assessment as a learning tool</td>
<td>Industry Showcase, Exhibition Hall</td>
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### Session 4 (90 mins)

#### 1330-1500

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

**Panelist:** Peter John Moon, Ballarat Technologies

**Room:** Exhibition Hall

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<th>Room</th>
<th>Session 4</th>
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<tr>
<td><strong>Session 3 (90 mins)</strong></td>
<td><strong>Plenary 3</strong></td>
<td><strong>SimHealth Keynote</strong> ISAGA Workshop</td>
<td><strong>ISAGA Free Papers</strong></td>
<td><strong>SimTecT Free Papers</strong></td>
<td><strong>SimTecT Free Papers</strong></td>
<td><strong>SimTecT Free Papers</strong></td>
<td><strong>SimTecT Free Papers</strong></td>
<td><strong>Verification, Validation and Accreditation</strong> ISAGA Free Papers</td>
<td><strong>ISAGA Free Papers</strong></td>
<td><strong>Industry Showcase, Exhibition Hall</strong></td>
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<tr>
<td><strong>Lunch</strong></td>
<td><strong>1200-1330</strong></td>
<td><strong>1245-1330</strong></td>
<td><strong>All Staff Meeting</strong></td>
<td>Open Invitation to Delegates</td>
<td><strong>ISAGA Workshop</strong></td>
<td><strong>ISAGA Free Papers</strong></td>
<td><strong>SimTecT Free Papers</strong></td>
<td><strong>Application of Engineering and Simulation to Human Factors and Training</strong> ISAGA Free Papers</td>
<td><strong>ISAGA Free Papers</strong></td>
<td><strong>Industry Showcase, Exhibition Hall</strong></td>
</tr>
<tr>
<td><strong>Afternoon Tea</strong></td>
<td><strong>1500-1530</strong></td>
<td><strong>1500-1530</strong></td>
<td><strong>Simulation/Week Meeting</strong></td>
<td>Open Invitation to Delegates</td>
<td><strong>SimHealth Keynote</strong></td>
<td><strong>SimTecT Workshop</strong></td>
<td><strong>SimHealth Works in Progress</strong></td>
<td><strong>Skills Development</strong></td>
<td><strong>ISAGA Free Papers</strong></td>
<td><strong>Industry Showcase, Exhibition Hall</strong></td>
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**Distributed Mission Training**

Chair: Michael McGarity, Convenor, SimTecT and Chief Engineer, Northrop Grumman

**Overview:** With the integration of Live, Virtual and Constructive (LVC) systems and the application of Distributed Mission Training (DMT), delivering at the point of need! has been achieved at the technical level.

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**Conference**

**Distributed Mission Training**

**Chair:** Dr. Adam Cheng, Director, Research and Development, KidSim Simulation Program, Alberta Children's Hospital, Department of Paediatrics, University of Calgary

**Panelist:** Peter John Moon, Ballarat Technologies

**Room:** Exhibition Hall

<table>
<thead>
<tr>
<th>Session 4 (90 mins)</th>
<th>Plenary 3</th>
<th>Meeting Room 207</th>
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<tr>
<td><strong>Distributed Mission Training</strong></td>
<td><strong>Plenary 3</strong></td>
<td><strong>SimTecT Panel</strong></td>
<td><strong>SimHealth Free Papers</strong></td>
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<td><strong>Leadership / Debriefing</strong></td>
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<td><strong>Health</strong></td>
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The next challenge is supplying these high-end simulation capabilities on demand, in a cost effective and repeatable manner. This panel will introduce the concepts of DMT, today’s challenges and discuss some of the technologies that will truly make DMT a commodity.

Panellist: Shawn Parr, CEO and Founder of Calytrix Technologies and Chair, Defence Specialist Community, Simulation Australasia

### Oral Presentations

<table>
<thead>
<tr>
<th>Presentation Code</th>
<th>Title</th>
<th>Speaker/Institution</th>
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</thead>
<tbody>
<tr>
<td>635</td>
<td>Development of an Innovative High Fidelity Paediatric ECMO Simulator</td>
<td>Nadine Sarah Gwendoline Alcorn, Kids Simulation Australia</td>
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<tr>
<td>631</td>
<td>Google Glass Wearable Technology Project - A Point of Departure</td>
<td>Adam Alexander Osomanski, Sydney University</td>
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<td>496</td>
<td>Improvement in Length of Stay Using a Simulation Based Clinical Leadership in Teams’ Course: a Longitudinal Before-After Interventional Study</td>
<td>Sissel Eikeland Husebø, Department of Health Studies, University of Stavanger</td>
</tr>
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</table>

### Poster Presentations

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</thead>
<tbody>
<tr>
<td>532</td>
<td>Exploring the Paradigm of Leadership Within Collaborative Teams: How can Simulation Shift the Traditional Paradigm</td>
<td>Tina Holmaz, University of New South Wales</td>
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<tr>
<td>540</td>
<td>What’s in a Name? - Embedding a Simulation Service within a Healthcare Institution</td>
<td>Victoria Brazil, Bond University Gold Coast Health Service</td>
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<td>542</td>
<td>Simulation Based Training Program to Improve Delivery of the Impacted Fetal Head at Caesarean Section</td>
<td>Sarah Janssens, Mater Mothers’ Hospital</td>
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<td>562</td>
<td>The First 3 Minutes “Implementation of a Novel Program to Improve Basic Life Support Training”</td>
<td>Jenny Hough, The Royal Children’s Hospital</td>
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<td>559</td>
<td>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’</td>
<td>Joanne McKittrick, The Royal Children’s Hospital</td>
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<tr>
<td>604</td>
<td>Interim Results from the Laparoscopic Simulation Skills Program</td>
<td>Nicholas Marlow, Royal Australasian College of Surgeons</td>
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<tr>
<td>422</td>
<td>Improving Recognition and Response to a Deteriorating Patient on an Occupational Therapy Home Visit Using Simulation-Based Training</td>
<td>Emma-Kate Dewhurst, Illawarra Shoalhaven Local Health District</td>
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<tr>
<td>507</td>
<td>Pop-up Simulation Program: A Program to Recognise the Deteriorating Patient at the Point of Care - The Next Chapter</td>
<td>Stephanie Barwick, Mater Education</td>
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</table>

### Social Function

**Evening 1830-2330**

**SOCIAL FUNCTION:** Simulation Australasia Annual Awards Dinner

Victory Room, Etihad Stadium
Leaders in Reality: Virtual, Augmented and Mixed

Chair: Sarah Hobbard, Consilium Technology Pty Ltd & Ronan McInerney, Defence Science and Technology Group

Overview: The rapid advancement of virtual reality (VR), augmented reality (AR) and mixed reality (MR) technologies has led to an explosion of interest for their use in many industries, including gaming, health, education and defence. This seminar brings leaders currently using VR, AR and/or MR technologies together to share their experiences and thoughts on those emerging technologies. Current trends and future projections will be discussed and the audience will have the opportunity to ask the panel questions. Concluding with a hands-on demonstration, the seminar aims to increase the awareness of these technologies and promote cross-industry networking.

Panelists:
- Rocky Heckman, Microsoft
- Adrian Webb, Australian Defence Simulation and Training Centre
- Michael PhHips, Monash University
- Scott Vandonke, Zero Latency
- Norman Wang, Opaque Multimedia

Morning Tea

1000-1030

Session 2

Keynote Presentation

Speaker: Carrie Hamilton, Director, Education, Training and Development

A Immersive Experience into the Power of Stimulating Senses in Simulation

Interoperability

Chair: Michael McGarity, Co-Convenor, SimTecT and ISAGA Panel

Managing Training Operations and Joint Events

Speaker:

Simulation Game, “Project PAL: Hawaii”

Overview: “Project PAL: Hawaii” incorporates indigenous knowledge, design thinking and art to address global concerns. This presentation demonstrates how “innovation” for Native Hawaiians can engage in synchronistic learnings as nascent social entrepreneurs.

SimART™ - Rapidly Applicable Simulation on a Budget

Panelists:
- Jessica Stokas-Parish, University of Newcastle
- Simon Patton, The University of Adelaide

Simulated Patients

1 Using Simulated Patients to Teach Recognising and Responding to Clinical Deterioration

Nermal Alalba, Bond University

473 Standardised Patient Scenarios Versus Peer-Role Play to Develop Physiotherapy Student Safety Skills in Readiness for Clinical Placement: a Controlled Trial

Dr Anna Phillips, School of Health Sciences, University of South Australia

633 Culturally and Linguistically Diverse (CALD) Children and Their Families: Improving the Practice of Taking Medical Histories for Doctors and Interpreters

Alice Polak, Kids Simulation Australia

639 A Framework for Learning with Simulated Participants in Competency-Based General Surgical Training (Using Sim Health Templates)

Bruce Wexman, Faculty of Medicine, Nursing & Health Sciences, Monash University

616 The HEAL Assessment Tool for Simulated Patient’s performance and feedback (SP-Assess)

Beverley Sutton, Health Education Australia (HEAL)

516 How to Design and Implement an Effective Human Patient Simulated Education Program

Libby Barcroft, Griffith University

605 Using Child Actors as Simulated Patients Within Nursing & Midwifery Higher Education

Dr Natasha Budd, Faculty of Arts and Business, The University of the Sunshine Coast

Meeting Room 206

Meeting Room 207

Meeting Room 208

Meeting Room 209

Meeting Room 216

Meeting Room 217

Meeting Room 218

Industry Showcase, Exhibition Hall
Lunch 1200-1330

1230-1330 Simulation Australasia Annual General Meeting Open Invitation to Delegates

1230-1330 ISAGA Annual General Meeting Open Invitation to Delegates

Plenary 3 Meeting Room 205 SimTech Free Papers Meeting Room 207 SimHealth Free Papers Meeting Room 208 SimHealth Free Papers Meeting Room 209 ISAGA Workshop SimHealth Workshop Meeting Room 216 SimHealth Workshop Meeting Room 217 SimHealth Workshop Industry Showcase, Exhibition Hall

Session 3 (90 mins) 1300-1500

Network Attack Model for Predictive Cyber Security Awareness
Panelist: Ben Krynski, Director and Head of Training, Real First Aid
Overview: This workshop will demonstrate the effectiveness of using low-tech adjuncts to create realistic scenarios for emergency training. Real First Aid will facilitate its own unique simulations and will incorporate participation from attendees to create an immersive, pre-hospital medical emergency. The simulation and gaming community is encouraged to get back to basics and experience the pure adrenaline-rush derived from participation in a dynamic and high-pressured simulation.

Panellists: Ben Krynski, Director and Head of Training, Real First Aid
Panellists: Jawahar Bhatta, Manager, Systems & Technologies, CAE Asia Pacific, CAE Australia and Chair, Professional Development Committee, Simulation Australasia
Panellists: Björn Möller, Vice President, Pitch Technologies

Chair: Brian Fagundes, Founder, Asia Pacific Simulation Alliance
Overview: Project PIAL: “Hawaii” incorporates indigenous knowledge, design thinking and art to address global concerns. This presentation demonstrates how “innovation” for Native Hawaiians can engage in synonymous learnings as nascent social entrepreneurs.

Panelists:
- Alisha Führer
- Ramesh Mark Nataraja
- Michael McGarity
- Gerrard Allis
- Mike Fagundes

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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

Panellists:
LtCol Lisa Davidson, Chief of Army Scholar 2016, Department of Defence
Prof Saied Nahavandi, Director Institute for Intelligent Systems, Research and Innovation, Deakin University
Prof Vijay Varadharajan, Microsoft Chair Professor in Innovation in Computing, Director Advanced Cyber Security Research Centre, Macquarie University

MonitorMyHealth (MMH): Simulation for Telehealth Enabled Smart Cities
Sanjeev Naguleswaran, QSPectral Systems

Does Immersive Simulation-Based Education (ISBE) Assist in the Demonstration of the Importance of Teamwork and Communication in Healthcare for Senior Nursing Students Studying Online? Jonathan Mould, Curtin University

Based Learning Environments
Brennan William Mills, Edith Cowan University

Oral Presentation
Depth of Field: Exploring Ageing - Evaluation of a Digital Reflective Learning Resource
Gabrielle Brand, The University of Western Australia

Oral Presentation
A Hybrid Simulated Learning Module Combining Patient Centred-Simulation with an Adaptive Learning Platform: Student Perceptions and Impact on Clinical Placement Performance
Niai Tuffio, Menzies Health Institute Queensland, Griffith University

Andrea Simone Gamble, Holmesglen Institute

Oral Presentation
Using Simulated Digital Role Plays to Teach 'Soft Skills': A Decade of Learning from Experience
Dale Linegar, Oztron Media

Oral Presentation
Leading Our Future Doctors to Deliver Better Men's Health Care
Christine Fairbank, University of Melbourne

Oral Presentation
Using Simulated Digital Role Plays to Teach 'Soft Skills': A Decade of Learning from Experience
Mary Leonie Curran, Mackay Hospital and Health Service

Oral Presentation
Benefits of Simulation Training for Mental Health Staff following Critical Events
Janice Margaret Roche, University of Newcastle

Oral Presentation
High Volume Nursing Assessments with High-Fidelity Team Simulation: A Topic Review
Nina Sivertsen, Flinders University

Oral Presentation
Enhancing Nursing Students' Competence through Simulation Based Health Assessment Program
Suet Lai Wung, The Open University of Hong Kong

Oral Presentation
Using Simulation to Embed the Importance of Comprehensive Nursing Documentation
Joanne Kelly Purdue, Calvary Mater Newcastle

Afternoon Tea 1500-1530

Plenary 3

Joint Closing Plenary