**Meeting Room 214**

**ISAGA Master Class**

**Urban Gaming for Serious Planning**

**Presenter:** Professor 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 end of this Master Class.

---

**Meeting Room 215**

**ISAGA Master Class**

**Principles and Practice of Evaluation Simulation**

**Presenter:** Professor Edwin Galea, Director, Fire Safety Engineering Group (FSEG) and Vice Chairman, International Association of Fire Safety Science, University of Greenwich

**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 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 – logistically, 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.

---

**Meeting Room 217**

**SimHealth 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**

**SimTecT Master Class**

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

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

**Overview:** The myth of the great leader pervasive 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 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 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**

**SimHealth Master Class**

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

**Presenter:** Dr Shanchen Jai 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 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 end of this Master Class.

---

**Meeting Room 220**

**SimTecT Master Class**

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

**Presenter:** Dr Shari 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 beginning of this Master Class.

---

**Meeting Room 221**

**ISAGA Site Visit & Workshop**

**Gaming 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? 48% 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 PAX, GDC, 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 your overall participation and results.

**Cost:** $265

**Time:** 0900 to 1730

**Location:** Pick up and drop off is from the Melbourne Convention and Exhibition Centre.
<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1 (90 mins)</th>
<th>Session 2 (90 mins)</th>
<th>Session 3 (90 mins)</th>
<th>Session 4 (90 mins)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0830-1000</td>
<td>ISAGA Opening</td>
<td>ISAGA Opening</td>
<td>ISAGA Workshop</td>
<td>ISAGA Opening</td>
</tr>
<tr>
<td>1000-1030</td>
<td>ISAGA Membership Meeting</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
<td>ISAGA Free Papers</td>
</tr>
<tr>
<td>1030-1200</td>
<td>ISAGA Workshop</td>
<td>ISAGA Free Papers</td>
<td>ISAGA Workshop</td>
<td>ISAGA Free Papers</td>
</tr>
<tr>
<td>1200-1330</td>
<td>Lunch</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
</tr>
<tr>
<td>1330-1500</td>
<td>ISAGA Workshop</td>
<td>ISAGA Free Papers</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
</tr>
<tr>
<td>1500-1530</td>
<td>Lunch</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
</tr>
<tr>
<td>1530-1700</td>
<td>ISAGA Workshop</td>
<td>ISAGA Free Papers</td>
<td>ISAGA Workshop</td>
<td>ISAGA Workshop</td>
</tr>
</tbody>
</table>

**ISAGA Opening**

**ISAGA Membership Meeting**

**ISAGA Workshop**

**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.

**Simulation and Learning**

**Oral Presentation – Long Paper**
710 Pitfall for Debriefing Games and Simulations: Theory and Practice
Bill Rougna, TU Deft

**Oral Presentation**
714 Building 'Safe Containers' for Effective Learning
Elyssebeth Leigh

**ISAGA Workshop**

**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.

**ISAGA Free Papers**

**Diversity**

**Oral Presentation – Long Paper**
527 The Effectiveness of Negotiation Games in Citizenship Education; Through An Examination of Diplomatic Negotiation Game INDEPENDENCE DAY in A Japanese High School
Hiroki Baba, Graduate School, Kobe University

**Oral Presentation**
644 A Study on Gaming Simulation as a Key of Meta-frame of Planning for Neighbourhood Immigrant Integration and Co-existing Diversity
Pongpisit Huyakorn, University of Sassari

**Oral Presentation – Long Paper**
701 From Recreational to Clinical Approaches: The Use of the Ludic Program Cuatro Tribus as a Complementary Tool for the Reintegration Treatment of Juvenile Offenders
Alfonso Atala Layun, Dinamita

**ISAGA Workshop**

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

**ISAGA Free Papers**

**Simulation and Organisations**

**Successful Design and Application of Games and Simulations in Real-World Settings: a Holistic Approach to Scaling Project-Oriented Problem-Based Learning University-Wide**
Benita Ann Rowe, TH Köln (Technical University of Cologne)

**Building Strategies for Organisational Development with Simulation Games**
Marcin Wardaszko, ISAGA

**Classroom as Organisation - a Simulation Strategy for Enacting Leadership in Formal Learning Contexts**
Elyssebeth Leigh, FutureSearch
Tuesday 27 September 2016

Lunch (90 mins)

Morning

Tea

Session 1 (90 mins)

0830-1000

Plenary 3

Joint Opening Plenary

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

Session 2 (90 mins)

1030-1200

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

Meeting Room 211

Meeting Room 212

Meeting Room 213

Meeting Room 214

Meeting Room 215

Meeting Room 216

Meeting Room 217

Meeting Room 218

Industry Showcase, Exhibition Hall

Lunch

1200-1330

International Guests Luncheon

Closed Session - Invite Only
Plenary 3 ISAGA Keynote

Session 3 (90 mins)

Meeting Room 206 SimTecT Workshop

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

Speaker: Pascal Perez

Panellists: Ben Krynski, Director and Head of Training, Real First Aid

Meeting Room 207 SimHealth Free Papers

Patient Safety

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

Nadine Sarah Gwendoline Arcom, Kids Simulation Australia

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

Alice Polak, Kids Simulation Australia

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

Janie Tomé, The University of Auckland

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

Belinda Karyn Judd, University of Sydney

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 Australia

Panelists:

- Professor Edein Gakka, Director, Fire Safety Engineering Group (FSSEG) and Vice Chairman, International Association of Fire Safety Science, University of Greenwich
- Elyssabeth Leigh, Deputy Chair, Simulation Australia
- Peter Morrison, Co-CEO, Bohemia Interactive Simulations
- Professor Dave Snowden, Chief Scientific Officer, Cognitive Edge and Founding Director, Centre for Applied Complexity, Bangor University

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

Panelists:

- Katie Walker, New York City Health Hospitals
- Ian Mason, Defence Research and Development Canada

719 Oral Presentation – Short Poster

A Swords Analysis of Virtual Reality for Safety Training in the Context of Mining Industry

Shiva Pedram, Student at Northrop Grumman

688 Oral Presentation – Long Paper

Optimising Aircrew Training Schedules using a Tabu Search

Ana Novak, Defence Science & Technology Group

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

529 An Evaluation of a Course on the Scenarios Development for Clinical Simulation in Nursing Education

Tulay Basak, School of Nursing, Gulhane Military Medical Academy

533 A Review of Simulation-Based Healthcare Education: Research in Turkey: 2006-2016

Semra Arıköz, School of Nursing, Gulhane Military Medical Academy

595 Analysis of the Impacts of High Fidelity Simulation Practice on the Perceptions of Nursing Students about the Preparation for Disasters

Veela Unver, School of Nursing, Gulhane Military Medical Academy
**Session 4 (90 mins)**

**Planning Healthcare Utilising Modelling and Simulation**

**Overview:** Pioneers in their fields, each panellist utilise 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.

**Panellists:**
- 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 Material Command in Fort Detrick, Maryland.

**Meeting Room 206**
- Business Games
  - 707 Oral Presentation – Long Paper
  - Simulation and Gaming in New Product Development
  - W.M.Ruvin M. Weerasinghe, Silithorn 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
  - Xiaoneu Zhi, Business School, China University of Political Science and Law

**Meeting Room 207**
- 668 Oral Presentation – Long Paper
  - Milk Product Supply Chain Management Game for Waste Reduction
  - Mizuho Sato, Kanto University
- 696 Oral Presentation – Long Paper
  - Identifying Moral and Ethics Underground for Business Ethics Teaching in a Simulation Context
  - Luiz Antonio Titto, Universidade de Sao Paulo

**Meeting Room 208**
- 589 A Immersive Experience into the Power of Stimulating Senses in Simulation
  - Panellists: Ben Krynski, Director and Head of Training, Real First Aid
  - Overview: This workshop will demonstrate the effectiveness of low-tech adjuncts to create an immersive environment for students to train in. A demonstration will be performed of one of Real First Aid’s simulations. This demonstration will incorporate participation from the attendees to create an immersive pre-hospital medical emergency. This is an opportunity for the simulation and gaming community to get back to basics and experience the pure adrenaline rush of participating in a high-octane simulation.

**Meeting Room 209**
- 597 SysTeamsChange® - Simulation Game for Leadership and Change Management
  - Panellist: Willy C. Kriz, University of Vorarlberg
  - 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 Geurtz.

**Meeting Room 210**
- 517 Laerdal Theme Editor Workshop
  - Panellist: Laura Vesey, Laerdal

**Meeting Room 216**
- 589 A Immersive Experience into the Power of Stimulating Senses in Simulation
  - Panellists: Ben Krynski, Director and Head of Training, Real First Aid
  - Overview: This workshop will demonstrate the effectiveness of low-tech adjuncts to create an immersive environment for students to train in. A demonstration will be performed of one of Real First Aid’s simulations. This demonstration will incorporate participation from the attendees to create an immersive pre-hospital medical emergency. This is an opportunity for the simulation and gaming community to get back to basics and experience the pure adrenaline rush of participating in a high-octane simulation.

**Meeting Room 217**
- 517 Laerdal Theme Editor Workshop
  - Panellist: Laura Vesey, Laerdal

**Meeting Room 218**
- 517 Laerdal Theme Editor Workshop
  - Panellist: Laura Vesey, Laerdal

**Meeting Room 219**
- 517 Laerdal Theme Editor Workshop
  - Panellist: Laura Vesey, Laerdal

**Industry Showcase, Exhibition Hall**
- 531 SimFringe Speed Networking
  - Exhibition Hall, Bays 11 and 12

**Social Function:**
- Conference Welcome Reception
  - Exhibition Hall, Bays 11 and 12

**Evening 1700-1900**
- SimFringe Speed Networking
  - Exhibition Hall, Bays 11 and 12
<table>
<thead>
<tr>
<th>Time</th>
<th>Section</th>
<th>Meeting Room</th>
<th>Event</th>
<th>Chair</th>
<th>Delegates Suitable For</th>
<th>Invitation Type</th>
<th>Catering</th>
</tr>
</thead>
<tbody>
<tr>
<td>0730-0815</td>
<td>Plenary 3</td>
<td>Meeting Room 207</td>
<td>ASSH Paediatric Special Interest Group Meeting</td>
<td>Dr Jenni Sokol</td>
<td>Delegates interested in paediatric and/or neonatal simulation</td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 208</td>
<td>ASSH Rural Special Interest Group Meeting</td>
<td>Kellie Britt</td>
<td>Delegates interested in rural simulation settings</td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 209</td>
<td>ASSH Simulated Patients Special Interest Group Meeting</td>
<td>Bev Sutton</td>
<td>Delegates interested in simulated patient methodology</td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 216</td>
<td>ASSH Technology Special Interest Group Meeting</td>
<td>Luke Wainwright</td>
<td>Delegates interested in the technology in simulation setting</td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 217</td>
<td>SimTecT Keynote</td>
<td></td>
<td></td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 218</td>
<td>SimHealth Free Papers</td>
<td></td>
<td></td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Meeting Room 219</td>
<td>SimHealth Free Papers</td>
<td></td>
<td></td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Industry Showcase, Exhibition Hall</td>
<td>SimHealth Free Papers</td>
<td></td>
<td></td>
<td>Open Invitation to Delegates</td>
<td>(no catering supplied)</td>
</tr>
</tbody>
</table>
Morning Tea
1000-1030

Session 1 (90 mins)
0830-1000

**Engineering Safety, Security and Efficiency through Fire and Evacuation Simulation**

Chair: Michael Gurry, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman

**Keynote Presentation**

Speaker: Professor Edien Galka, 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 using lifts, the impact of security boilants on evacuation, improving wayfinding in complex 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**

**New Developments in Large Spaces**

- Undergrad Nursing: 513
  - Oral Presentation: Undergraduate Students’ Experiences of Being ‘in role’ in Simulated Nursing Practice as the Recipients and Providers of Nursing Care
  - Nancy Loraine McNamara, Waikato Institute of Technology

- IP: 587
  - Oral Presentation: Medical Student Preparedness for Internship Improves After Interprofessional Simulation-Based ‘Ward Calls’ Course
  - Jana Tomi, 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
  - Vanessa Jane Ryan, Flinders University Clinical School

- Leadership: 566
  - Oral Presentation: 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
  - Robyn Dickie, Mater Health Services

- Technology: 499
  - Oral Presentation: Rehearsing the Very Technical Skills of Communication in Breaking Bad News: Analysis of Medical Student Performance
  - Cory Wright-Maley, St Mary's University

- 492
  - Oral Presentation: The Perceived Effects on Final Year Medical Students’ Clinical Practice Following an Immersive Simulation Program on the Deteriorating Patient
  - Nancy Colleen Nowlan, Simon Fraser University

- 683
  - Nancy Colleen Nowlan, Simon Fraser University

**New Hospital Opening**

- Meeting Room 216
  - Panellist: Liz McConnell, School of Nursing & Midwifery, Flinders University

**Student Led Scenarios: Oral Presentation**

- Joint SimTecT and ISAGA Panel

**SimTecT Free Papers**

- Meeting Room 219

**SimHealth Workshop**

- Meeting Room 218

**SimHealth Posters**

- Meeting Room 217

**Industry Showcase, Exhibition Hall**

**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**

- Robyn Dickie, Mater Health Services
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair/Panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1030-1200</td>
<td>Emergency Management Case Studies Panel</td>
<td>Chair: Mike Brennan, Chair: Simulation Australasia</td>
</tr>
<tr>
<td>1200-1330</td>
<td>Simulation Platform: Enabling the Rapid Development of Immersive 3D Simulated Learning Experiences</td>
<td>Ivan Karl Bindoff, University of Tasmania</td>
</tr>
<tr>
<td>1245-1330</td>
<td>Open Invitation to Delegates</td>
<td></td>
</tr>
<tr>
<td>1245-1330</td>
<td>ISAGA Members Meeting</td>
<td></td>
</tr>
<tr>
<td>1330-1400</td>
<td>Plenary 3</td>
<td></td>
</tr>
<tr>
<td>1400-1430</td>
<td>SimHealth Keynote</td>
<td></td>
</tr>
<tr>
<td>1430-1510</td>
<td>Meeting Room 207</td>
<td>ISAGA Workshop</td>
</tr>
<tr>
<td>1510-1540</td>
<td>Meeting Room 208</td>
<td>ISAGA Free Papers</td>
</tr>
<tr>
<td>1540-1610</td>
<td>Meeting Room 209</td>
<td>SimTecT Free Papers</td>
</tr>
<tr>
<td>1610-1640</td>
<td>Meeting Room 216</td>
<td>SimTecT Free Papers</td>
</tr>
<tr>
<td>1640-1710</td>
<td>Meeting Room 217</td>
<td>SimTecT Free Papers</td>
</tr>
<tr>
<td>1710-1740</td>
<td>Meeting Room 218</td>
<td>SimTecT Panel</td>
</tr>
<tr>
<td>1740-1810</td>
<td>Meeting Room 219</td>
<td>ISAGA Free Papers</td>
</tr>
<tr>
<td>1810-1840</td>
<td>Industry Showcase, Exhibition Hall</td>
<td></td>
</tr>
<tr>
<td>1840-1910</td>
<td>SimHealth Session</td>
<td></td>
</tr>
</tbody>
</table>

**Sessions:**
- **Session 2** (90 mins)
- **Lunch** (90 mins)
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/effectively this information in a less invasive, more natural way that gives people better understanding of their systems? Analytics are used to see patterns, natures and information in a less invasive, more natural way that gives people a better understanding of their systems. Analytics are used to see patterns, natures and information in a less invasive, more natural way that gives people better understanding of their systems. Analytics are used to see patterns, natures and information in a less invasive, more natural way that gives people better understanding of their systems. Analytics are used to see patterns, natures and information in a less invasive, more natural way that gives people better understanding of their systems.
<table>
<thead>
<tr>
<th>Session 4 (90 mins)</th>
<th>1530-1700</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Distributed Mission Planning</strong></td>
<td><strong>Technology</strong></td>
</tr>
<tr>
<td>Chair: Michael McGurty, Co-Convenor, SimTeC and Chief Engineer, Northrop Grumman</td>
<td>Chair: Tricia Plotto, Queensland Health</td>
</tr>
<tr>
<td>Panellists: Shawn Farr, CEO and Founder of Calytrix Technologies and Chair, Defence Specialist Community, Simulation Australasia</td>
<td></td>
</tr>
<tr>
<td><strong>Leadership / Debriefing</strong></td>
<td><strong>540 Teamwork: Why Games are a Fast Way to Develop Knowledge of Human Factors</strong></td>
</tr>
<tr>
<td></td>
<td>Chair: Nicole Jones de Rooy, SimTeC Convenor</td>
</tr>
<tr>
<td>481 Oral Presentation Better BLS - Technology and Educational Innovation</td>
<td>540 Oral Presentation Scaffolding Learning in the Simulation Room: Workshopping and Combining Clinical and Communication Scenarios for Simulation-Based Education</td>
</tr>
<tr>
<td>Tricia Plotto, Queensland Health</td>
<td>Melissa Heywood, The Royal Children's Hospital</td>
</tr>
<tr>
<td>64 Oral Presentation Using a Custom Built Birthing Simulator as an Education Tool to Teach Manual Rotation to Midwives and Obstetricians</td>
<td>514 Oral Presentation Exploring the Paradigm of Leadership Within Collaborative Teams: How can Simulation Shift the Traditional Paradigm</td>
</tr>
<tr>
<td>Sarah Catherine McDonald, The University of Sydney</td>
<td>Tina Holmes, University of New South Wales</td>
</tr>
<tr>
<td>635 Oral Presentation Development of an Innovative High Fidelity Paediatric ECMO Simulator</td>
<td>532 Oral Presentation Teaching and Debriefing Practices of Simulation Instructors</td>
</tr>
<tr>
<td>Nadine Sarah Gwendoline Alcorn, Kids Simulation Australia</td>
<td>Julian Van Dijk, St Vincent's Hospital</td>
</tr>
<tr>
<td>631 Oral Presentation Google Glass Wearable Technology Project - A Point of Departure</td>
<td>496 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>
</tr>
<tr>
<td>Adam Alexander Osmanski, Sydney University</td>
<td>Sasse Ekalander Husebye, Department of Health Studies, University of Stavanger</td>
</tr>
<tr>
<td><strong>Skills Development</strong></td>
<td><strong>600 The Simulated Learning Environment Quality Framework (SLE QF) - What it is and What it Means for You</strong></td>
</tr>
<tr>
<td>Chair: Alina Miranda, School of Biomedical Science, Curtin University</td>
<td>Chair: Richard Huysmans, Raven Consulting Group</td>
</tr>
<tr>
<td>507 Developing an Authentic Simulation to Enhance Clinical and Technical Skills for Diagnostic Cytology Students</td>
<td>568 PRE-Scripted Debriefing for Paediatric Simulation Associated with Resuscitation Education (PREPARE)</td>
</tr>
<tr>
<td>Alina Miranda, School of Biomedical Science, Curtin University</td>
<td>Peter James Snelling, Children's Health Queensland</td>
</tr>
<tr>
<td>635 Innovative High Fidelity Orals Presentation</td>
<td>640 What's in a Name? - Embedding a Simulation Service within a Healthcare Institution</td>
</tr>
<tr>
<td>Nadine Sarah Gwendoline Alcorn, Kids Simulation Australia</td>
<td>Victoria Brazil, Bond University Gold Coast Health Service</td>
</tr>
<tr>
<td><strong>Emergency Management</strong></td>
<td><strong>521 Bushfire BLOCKS for Modelling Community Evacuation</strong></td>
</tr>
<tr>
<td>Lin Pardham, RMIT University</td>
<td>Lin Pardham, RMIT University</td>
</tr>
<tr>
<td>704 Intentional Small-Scale Disasters: Simulating Oil Spills to Develop Hands-On Environmental Remediation Experience</td>
<td></td>
</tr>
<tr>
<td>Megan L Phillips, University of Technology Sydney</td>
<td></td>
</tr>
<tr>
<td>724 An Integrated GPU Based Framework for Modelling Floods and Fires in Real Time</td>
<td></td>
</tr>
<tr>
<td>Mahesh Prakash, CSIRO Data61</td>
<td></td>
</tr>
</tbody>
</table>
### Session 1
**Morning**
0830-1000

#### Plenary 3
**iSAGA Panel**
Meeting Room 206

**ISAGA Workshop**
Meeting Room 207

**SimTecT Industry Brief**
Meeting Room 208

**SimTecT Workshop**
Meeting Room 209

**SimHealth Workshop**
Meeting Room 210

**SimHealth Keynote**
Meeting Room 211

**SimHealth Posters**
Meeting Room 212

### Session 1 (90 mins)

<table>
<thead>
<tr>
<th>464</th>
<th>Leaders in Reality: Virtual, Augmented and Mixed</th>
</tr>
</thead>
</table>

**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 utilizing, and planning to utilize, 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

### Fringe 30

<table>
<thead>
<tr>
<th>Fringe 30</th>
<th>Faculty Development</th>
</tr>
</thead>
</table>

**Faculty Development**
Meeting Room 206

- **481**
  - Oral Presentation
  - Faculty Development as a Strategy for Enhancing Simulation Delivery Capacity in a Healthcare Service
  - Catherine Lynn Driver, Gold Coast Health

- **490**
  - Oral Presentation
  - Learning Through Simulation-Based Education: a Narrative Analysis
  - Margaret Bearman, Monash University

- **511**
  - Oral Presentation
  - Learner Evaluation of a Termly Hospital Inter-Professional Simulation Faculty Education Development Program
  - Robin Purcell, Austin Health

- **618**
  - Oral Presentation
  - Unique Opportunities and Challenges: Embedding and Leading Simulation Across Multiple Disciplines Within a Faculty of Health Sciences
  - Alison Kelly, Curtin University

### Industry Showcase, Exhibition Hall

<table>
<thead>
<tr>
<th>614</th>
<th>Using Simulated Patients to Teach Recognising and Responding to Clinical Deterioration</th>
</tr>
</thead>
</table>

**Speaker:**
Nemat Alsaba, Bond University

<table>
<thead>
<tr>
<th>473</th>
<th>Standardised Patient Scenarios Versus Peer-Role Play to Develop Physiotherapy Student Safety Skills in Readiness for Clinical Placement: a Controlled Trial</th>
</tr>
</thead>
</table>

**Speaker:**
Dr Anna Phillips, School of Health Sciences, University of South Australia

<table>
<thead>
<tr>
<th>633</th>
<th>Culturally and Linguistically Diverse (CALD) Children and Their Families: Improving the Practice of Taking Medical Histories for Doctors and Interpreters</th>
</tr>
</thead>
</table>

**Speaker:**
Alice Polak, Kids Simulation Australia

<table>
<thead>
<tr>
<th>639</th>
<th>A Framework for Learning with Simulated Participants in Competency-Based General Surgical Training (Using Sim Health Templates)</th>
</tr>
</thead>
</table>

**Speaker:**
Bruce Waxman, Faculty of Medicine, Nursing & Health Sciences, Monash University

<table>
<thead>
<tr>
<th>616</th>
<th>The HEAL Assessment Tool for Simulated Patient's performance and feedback (SP-Assess)</th>
</tr>
</thead>
</table>

**Speaker:**
Beverley Sutton, Health Education Australia (HEAL)

<table>
<thead>
<tr>
<th>516</th>
<th>How to Design and Implement an Effective Human Patient Simulated Education Program</th>
</tr>
</thead>
</table>

**Speaker:**
Libby Barcroft, Griffith University

<table>
<thead>
<tr>
<th>650</th>
<th>Using Child Actors as Simulated Patients Within Nursing &amp; Midwifery Higher Education</th>
</tr>
</thead>
</table>

**Speaker:**
Dr Natasha Budd, Faculty of Arts and Business, The University of the Sunshine Coast
<table>
<thead>
<tr>
<th>Session 2</th>
<th>1030-1200</th>
</tr>
</thead>
</table>
| **Keynote Presentation**<br>Speaker: Carrie Hamilton, Director, Education, Training and Innovation, SimComm Academy<br>**High Resolution Point Clouds - Laser Scanning Techniques for Virtual Environments and Engineering Data Capture**<br>**Interoperability**<br>Chair: Michael McGarity, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman<br>**New Research & Opportunities**<br>723 Oral Presentation – Short Paper<br>Pitfall for Debriefing Games and Simulation<br>Bill Roungas, Student at DelTech University of Technology<br>571 Oral Presentation – Long Paper<br>Toward Improving Medical Device Cybersecurity<br>Mark R Stutz, ProSource<br>443 Oral Presentation – Short Paper<br>Launching an Offensive Against the Human Avatars<br>Peter Moon, Ballarat Technologies<br>572 Oral Presentation – Short Paper<br>What About the Rest of Us - Thinking about Accessibility and Online Simulations<br>Melanie Worrall, The Klevar Group<br>**Managing Operations and Joint Events**<br>**Simulation Game, “Project PAL: Hawaii” (Continued)**<br>Speaker: LTCOL Frédéric Martínez<br>663 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>**Panellist:** Adrian Webb, Australian Defence Simulation & Training Centre<br>**Interoperability**<br>Chair: Michael McGarity, Co-Convenor, SimTecT and Chief Engineer, Northrop Grumman<br>Panellists:<br>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

<table>
<thead>
<tr>
<th>Lunch</th>
<th>1200-1330</th>
</tr>
</thead>
<tbody>
<tr>
<td>1230-1330 Simulation Australasia Annual General Meeting Open Invitation to Delegates&lt;br&gt;1230-1330 ISAGA Annual General Meeting Open Invitation to Delegates</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Plenary 3</th>
<th>1300-1530</th>
</tr>
</thead>
<tbody>
<tr>
<td>SimTecT Keynote</td>
<td>Meeting Room 206</td>
</tr>
<tr>
<td>SimHealth Free Papers</td>
<td>Meeting Room 207</td>
</tr>
<tr>
<td>SimHealth Free Papers</td>
<td>Meeting Room 208</td>
</tr>
<tr>
<td>SimHealth Free Papers</td>
<td>ISAGA Workshop</td>
</tr>
<tr>
<td>ISAGA Workshop</td>
<td>Meeting Room 216</td>
</tr>
<tr>
<td>SimHealth Workshop</td>
<td>Meeting Room 217</td>
</tr>
<tr>
<td>SimHealth Workshop</td>
<td>SimHealth Posters</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Business Games</th>
<th>1600-1730</th>
</tr>
</thead>
<tbody>
<tr>
<td>622 Oral Presentation – Long Paper&lt;br&gt;Gamification in Management Accounting Research - Using Business Games &amp; Simulations&lt;br&gt;Matthew Breuning, Technical University of Kaiserslautern</td>
<td></td>
</tr>
<tr>
<td>703 Oral Presentation – Long Paper&lt;br&gt;Development of Business Simulation Game with Use of Design Science Research&lt;br&gt;Michal Jakubowski, Kozminski University</td>
<td></td>
</tr>
<tr>
<td>709 Oral Presentation – Long Paper&lt;br&gt;A Management Model for Effective Team Communication in Business Simulation Games&lt;br&gt;Anna Palyga, Kozminski University</td>
<td></td>
</tr>
<tr>
<td>759 Oral Presentation – Long Paper&lt;br&gt;Teaching Business History with a Simulation&lt;br&gt;Anna Marta Pikos, Kozminski University</td>
<td></td>
</tr>
<tr>
<td>629 Oral Presentation – Long Paper&lt;br&gt;Managing Operations and Joint Events&lt;br&gt;<strong>Simulation Game, “Project PAL: Hawaii” (Continued)</strong>&lt;br&gt;Speaker: LTCOL Frédéric Martínez&lt;br&gt;663 Boss Level: Industries Open for Business&lt;br&gt;<strong>Overview:</strong> 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?&lt;br&gt;<strong>Panellist:</strong> Adrian Webb, Australian Defence Simulation &amp; Training Centre</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Industry Showcase, Exhibition Hall</th>
<th>1745-1815</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry Showcase, Exhibition Hall</td>
<td>Industry Showcase, Exhibition Hall</td>
</tr>
</tbody>
</table>
Session 3 (90 mins)

1330-100

Network Attack Modelling for Predictive Cyber Situation Awareness

Chair: Michael McGarty, University of British Columbia, Canada
Co-Convenor: SimTecT and Chief Engineer, Northrop Grumman

Keynote Presentation:

Speaker: Dr Shanchieh Jay Yang, Professor and Head of Computer Engineering, Kats Gleason College of Engineering, Rochester Institute of Technology

Overview:
As network attacks continue to evolve and become more sophisticated, automating the process of recognizing attack strategies at their early stage and prioritizing defence resources is 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

Panelists:
- Prof Saied Nahavandi
- LtCol Lisa Davidson

Surgical / Simulation Education

621 Comparison of the Non-Technical Skills of Surgical Trainees and Experienced Surgeons Nicholas Martow, Royal Australasian College of Surgeons

547 Application of Advanced Surgical Simulation to a Limited-Resource Setting in a Developing Country Ramesh Mark Nazaria, Monash Children's Hospital

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

536 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? Studying On-line Jonathan Mould, Curtin University

Curriculum Development

506 Oral Presentation A Comparison Between 2 Clinical Simulation Placement Models Involving Different Student-Simulated Patient Contact Times: Is There a Difference in Student Confidence and Competence Outcomes? Penny Moss, Curtin University

524 Investigating the Extent Highly Realistic Moulage Impacts on Learning Outcomes in Simulation-Based Learning Environments Bronner William Mills, Edith Cowan University

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

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

Simulated Patients

475 Oral Presentation Liminal Experiences of Cultural and Linguistically Diverse (CALD) Simulated Patients Revealed Through Narrative Analysis Karen Livey, Victoria University

566 Oral Presentation Through the Looking Glass: Analysing the Inclusion of Children and Adolescent Simulated Patients in Simulation Based Nursing Education Andrea Simone Gamble, Holmsglen Institute

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

665 It's Not Just Entertainment, The Many Faces of Games in Society 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 their fields. It will look at various fields. It will look at the new medium.

518 Laerdal Technical Services

Panellist: Gerard Alis, Laerdal

537 Creating a Simulation Alliance or Network: Your "How to" Guide

Panellist: KT Waxman, University of San Francisco

Assessment / Faculty Development

581 Simulation Coordinator Training (SCT), Unlocking the Cupboard - David Michael Arthur, Queensland Health

457 The DELTA Approach to Basic Life Support Training Using an Automated Debriefing Tool Kellie Brit, Deakin University

553 Rapid Cycle Deliberate Practice Compared with Immersive Simulation and Standard Debriefing for Inter-Professional Simulation-Based Education Janiell Sokol, The Royal Children's Hospital

648 The Simulation Educators Network - There's Synergy for Sustainability! Janice Margaret Roche, University of Newcastle

656 Benefits of Simulation Training for Mental Health Staff following Critical Events Mary Louise Curran, Mackay Hospital and Health Service

555 High Volume Nursing Assessments with High-Fidelity Team Simulation: A Topic Review Nina Skvorten, Flinders University

642 Enhancing Nursing Students' Competence through Simulation Based Health Assessment Program Sueh Lai Wong, The Open University of Hong Kong

586 Using Simulation to Embed the Importance of Comprehensive Nursing Documentation Joanna Kelly Pursue, Calvary Mater Newcastle