



3rd Asia Pacific Conference

BRISBANE AUSTRALIA 2020



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Sunday 2 February 2020

Pre-Conference Workshops & Welcome BBQ Dinner

8–9am	Registration <i>Abel Smith Lecture Theatre (23), foyer</i>	
9–10am	Introductory Track <i>General Purpose North 3 Building (39A), room 209</i> Presenters Bob Cavana and Mark Heffernan	Intermediate Track <i>General Purpose North 3 Building (39A), room 208</i> Presenters Bob Eberlein and Shayne Gary
10–10.30am	Morning Tea <i>General Purpose North 3 Building (39A), foyer</i>	
10.30am–12pm	Introductory Track <i>General Purpose North 3 Building (39A), room 209</i> Presenters Bob Cavana and Mark Heffernan	Intermediate Track <i>General Purpose North 3 Building (39A), room 208</i> Presenters Bob Eberlein and Shayne Gary
12–1pm	Lunch <i>General Purpose North 3 Building (39A), foyer</i>	
1–3pm	Introductory Track <i>General Purpose North 3 Building (39A), room 209</i> Presenters Bob Cavana and Mark Heffernan	Intermediate Track <i>General Purpose North 3 Building (39A), room 208</i> Presenters Bob Eberlein and Shayne Gary
3–3.30pm	Afternoon Tea <i>General Purpose North 3 Building (39A), foyer</i>	
3.30–5pm	Introductory Track <i>General Purpose North 3 Building (39A), room 209</i> Presenters Bob Cavana and Mark Heffernan	Intermediate Track <i>General Purpose North 3 Building (39A), room 208</i> Presenters Bob Eberlein and Shayne Gary
5–8pm	Welcome BBQ Dinner <i>Natural Amphitheatre, UQ Lakes</i>	

Monday 3 February 2020

Conference Day One & Conference Dinner and Discussion Panel

8–9am	Registration <i>Abel Smith Lecture Theatre (23), foyer</i>			
9–9.30am	Conference Opening (Chair: Carl Smith) <i>Abel Smith Lecture Theatre (23), room 101</i>			
9.30–10.30am	Keynote Presentation (Chair: Carl Smith) <i>Abel Smith Lecture Theatre (23), room 101</i> Presenter Medrilzam: Integration of System Dynamics and Spatial Dynamics Modelling to Predict Changes in Environmental Carrying Capacity in Indonesia			
10.30–11am	Morning Tea <i>Abel Smith Lecture Theatre (23), foyer</i>			
11am–12.30pm	Parallel Sessions <i>Choose one of the following:</i>			
	Business Systems (Chair: Shayne Gary) <i>General Purpose North 3 Building (39A), room 209</i> Presenters Kerry Humphreys: Management Decision Making using a Simplified Stock & Flow Diagram and System Dynamics Training with the Balanced Scorecard Framework Makoto Kimura: Customer Journey Pathway Analysis from the Perspective of Customer Engagement: A System Dynamics Approach Narumi Nakazato: A Proposal of Use of System Dynamics as a Tool to Infer Managerial Decision Making	Health Systems (Chair: Sue McAvoy) <i>Colin Clark Building (39), room 105</i> Presenters Nobuo Nishi: Projected Changes in Healthy Life Expectancy and Healthcare Costs 2020–2040 Through Long-Term Care Prevention Among Older Japanese People Ryan Teo Jin Chuan: Projecting Healthcare Utilisation by Low-Income Elderly in Singapore using a Dynamic Multi-State Population Model Agnes Toth-Peter: Smoking Model: evaluating the dynamics of tobacco smoking in Australia	Agricultural Systems (Chair: Julius Kotir) <i>Colin Clark Building (39), room 104</i> Presenters Fadzli Ali: The dynamics of rubber production in Malaysia: Potential impacts and challenges Sabrina Chakori: The need to reduce food packaging: a system approach Julius Kotir: Developing population-water-food system dynamics model with stakeholders: a critical reflection and lessons from the field	Community Based System Dynamics (Chair: Andrew Brown) <i>Colin Clark Building (39), room 103</i> Presenters Andrew Brown: Testing Community Based System Dynamics for Obesity Prevention at Scale Sophie Cheng Xiaolin: Suicide interventions in the acute hospital: Redefining the role of Medical Social Workers in Singapore, using a Community Based System Dynamics Approach Discussion on Scriptapedia and other options for sharing best practices for adapting GMB scripts to diverse contexts
12.30–1.30pm	Lunch & Poster Exhibition <i>Abel Smith Lecture Theatre (23), foyer</i>			

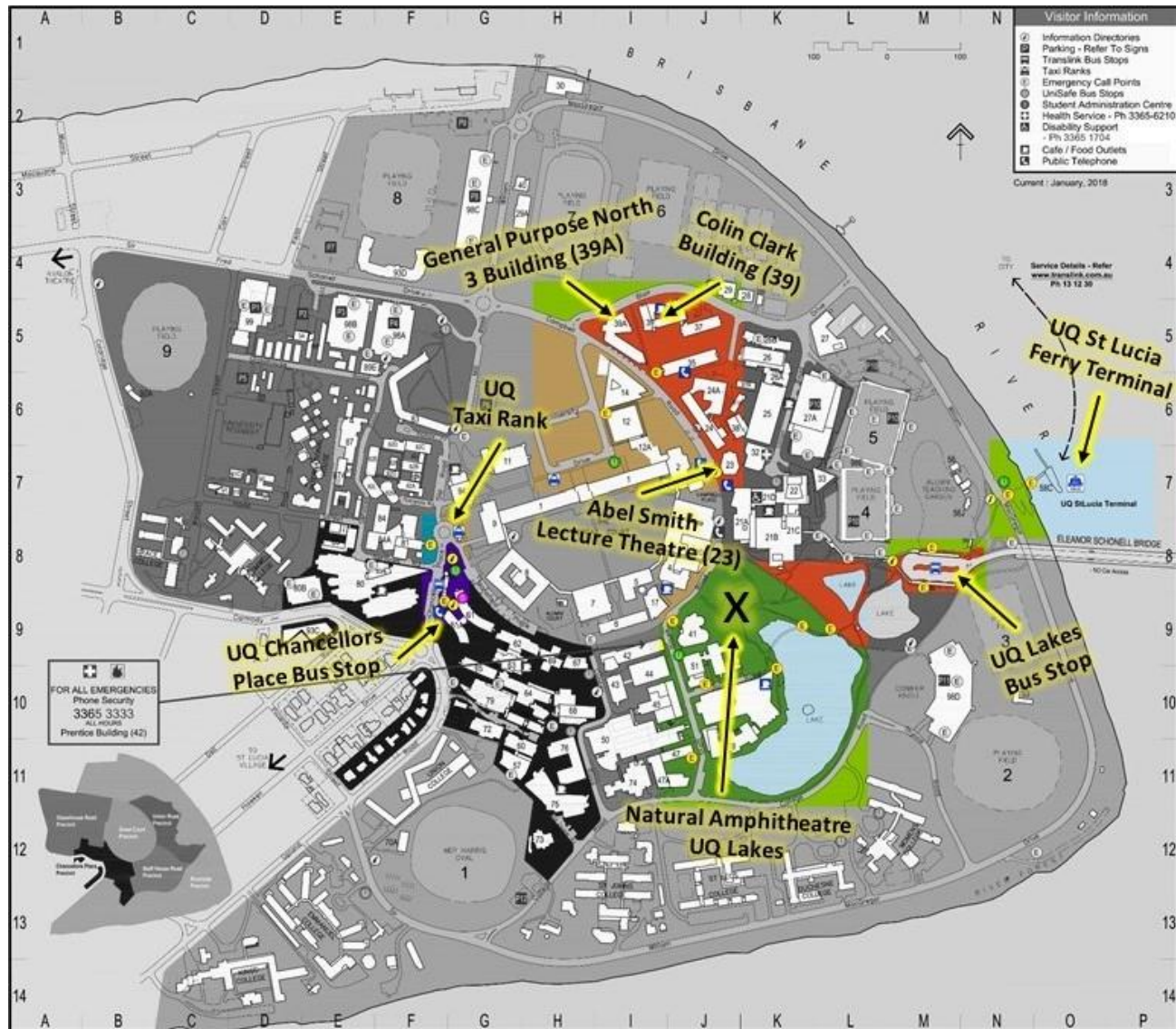
1.30–3pm	Parallel Sessions			
	<p>Business Systems (Chair: Shayne Gary) General Purpose North 3 Building (39A), room 209</p> <p>Presenters Isaac Okada: Corporate Human Resources Policymaking</p> <p>Brunilde Verrier: System Dynamics for a Sustainable Mining Industry</p> <p>Nicholas Mak: What contributes to a team’s effectiveness, and what can be done to improve it?</p>	<p>Health Systems (Chair: Sue McAvoy) Colin Clark Building (39), room 105</p> <p>Presenters Irvanu Rahman: Sustainable Financing Policy Analysis for Universal Health Coverage: The Case of Indonesian Tobacco Excise Tax</p> <p>John Ansah: An Evaluation of the Impact of Aggressive Hypertension, Diabetes and Smoking Cessation Management on CVD outcomes at the Population Level: A Dynamic Simulation Analysis</p> <p>Christopher Chiam Wei Xiang: Young Onset Dementia in Singapore - Projecting its Prevalence and Cost</p> <p>Emiliya Suprun: Rethinking PhD candidates’ well-being: A participatory systems approach</p>	<p>Agricultural Systems (Chair: Julius Kotir) Colin Clark Building (39), room 104</p> <p>Presenters Julius Kotir: Dynamic bio-economic simulation model for assessing whole-farm performance and impacts of innovation options</p> <p>Yong Sebastian Nyam: Conceptual Modelling of Sustainable Water resource management and Agricultural development under uncertainty: The Case of the Breede River Catchment Area, South Africa</p> <p>Karl Rich: Using participatory system dynamics approaches to evaluate the nutritional sensitivity of a producer-facing agricultural intervention in India and Bangladesh</p>	<p>Environmental Systems (Chair: Russell Richards) Colin Clark Building (39), room 103</p> <p>Presenters Asri Dwiyahreni: Systems dynamics model for Indonesia’s terrestrial national parks</p> <p>Ashton Eaves: Modelling economic risk to sea-level rise and storms at the coastal margin</p> <p>Russell Richards: Understanding the cascading effects of heavy metal contamination in Sydney estuary</p> <p>Rassam Moshrefi: Carbon tax or energy carrier’s price rise for mitigating CO2 emission? A case study of an energy-rich country</p>
3–3.30pm	<p>Afternoon Tea Abel Smith Lecture Theatre (23), foyer</p>			
3.30–4.30pm	<p>Plenary Session One (Chair: Carl Smith) Abel Smith Lecture Theatre (23), room 101</p> <p>Presenters</p> <ol style="list-style-type: none"> Shanie Atkinson: Dynamics of Post-Acquisition Integration Management Cindy Peng: System dynamics model as a national decision-support tool reduce the burden of cardiovascular disease Bill Grace: Sustainability and the SDGs: a systems perspective 			
4.30–6pm	<p>Travel Break</p>			
6–10pm	<p>Conference Dinner and Discussion Panel (Chair: Carl Smith) Customs House, 399 Queen Street, Brisbane QLD 4000</p>			

Tuesday 4 February 2020

Conference Day Two

7.30–8.30am	<p>Meeting of the Asia Pacific Coordinating Council (Chair: Carl Smith/Bob Cavana) <i>Abel Smith Lecture Theatre (23), room 101</i></p> <p>This meeting will be to discuss the location and dates for the next Asia Pacific System Dynamics Conference.</p>		<p>Student System Dynamics Working Group Meeting (Chair: Tari Bowling) <i>General Purpose North 3 Building (39A), room 203</i></p> <p>This meeting will discuss student collaboration in System Dynamics.</p>	
8.30–10am	<p>Workshop Sessions <i>Choose one of the following:</i></p>			
	<p>UQ Cases <i>General Purpose North 3 Building (39A), room 209</i></p> <p>Presenters Carl Smith, Russell Richards and Ninad Jagdish</p>	<p>Building the Urban 1 Model <i>Colin Clark Building (39), room 104</i></p> <p>Presenters Elizabeth Ong</p>	<p>Systems Thinking Play Workshop for K-12 Education <i>Colin Clark Building (39), room 105</i></p> <p>Presenters Benjamin Chung</p>	<p>World Climate Game <i>General Purpose North 3 Building (39A), room 208</i></p> <p>Presenter Bill Grace</p>
10–10.30am	<p>Morning Tea <i>Abel Smith Lecture Theatre (23), foyer</i></p>			
10.30am–12pm	<p>Parallel Sessions <i>Choose one of the following:</i></p>			
	<p>System Dynamics Education (Chair: Bob Cavana) <i>General Purpose North 3 Building (39A), room 209</i></p> <p>Presenters Chris Browne: Playing in the bathtub: how we think about the bathtub metaphor</p> <p>Jenson Goh Chong Leng: Enhancing undergraduates' perceived learning of Singapore complex food security and waste problems through the LEGO® SERIOUS PLAY® method</p> <p>Bob Cavana: Reflections of Teaching the Causal Loop Modelling approach to Systems Thinking in New Zealand</p>	<p>Health Systems (Chair: Oz Sahin) <i>Colin Clark Building (39), room 105</i></p> <p>Presenters Sue McAvoy: Improving Access to Emergency Departments</p> <p>Yin Jien Lee: A Dynamic Modeling Approach to Theorize the Unintended Consequences of the Hospital-delivery Subsidy Program in Jiading, Shanghai</p> <p>John Ansah: Modeling Emergency Department Crowding: Restoring the Balance between Demand for and Supply of Emergency Medicine</p>	<p>Agricultural Systems (Chair: Kanar Dizyee) <i>Colin Clark Building (39), room 104</i></p> <p>Presenters Jared Berends: A pro-poor approach to upgrade agri-food value chains in Tanintharyi region of Myanmar</p> <p>Kanar Dizyee: A system dynamics approach to chain/network analysis in the primary industry sector: Case studies of beef, dairy, and amaranth in the developing world</p> <p>Yanti Nuraeni Muflikh: Understanding underlying issues across the Indonesian chilli value chain using systems thinking</p>	<p>Environmental Systems (Chair: Russell Richards) <i>Colin Clark Building (39), room 103</i></p> <p>Presenters Thuc Pham: Assessing the vulnerability of an island water system subject to climate change and tourism development: A system dynamics approach</p> <p>Svea Staby: The Electricity City: Modelling the Dynamics of Queensland's Electricity Trends</p> <p>Craig Jacobson: The role of trust in enablers and barriers to adoption of clean cooking practices</p>

12-1pm	<p>Lunch & Poster Exhibition Abel Smith Lecture Theatre (23), foyer</p>			
1-2.30pm	<p>Parallel Sessions Choose one of the following:</p>			
	<p>Business Systems (Chair: Kerry Humphreys) General Purpose North 3 Building (39A), room 209</p> <p>Presenters Shayne Gary: Stretch Goals and Entrepreneurial Resource Allocations Between Established Products and New Opportunities</p> <p>Jonathan Yeo Ming Jie: Assessing the Sustainability of Dockless Bike-Sharing in Singapore</p> <p>Wong Zhengwei: Towards sustainable travel: Investigating the impact of CSR investment on the brand strength of a small hotel business</p>	<p>Other (Chair: Oz Sahin) Colin Clark Building (39), room 105</p> <p>Presenters Nicholas Mak: The effect of child's happiness and social attainment on parents' enjoyment of parenting and desire to have more children</p> <p>Toru Suetake: Transform of Anger to Acquaintance: SD model of "Tempest"</p> <p>Toru Suetake: Understanding History with Business Model</p>	<p>System Dynamics Method (Chair: Chris Browne) Colin Clark Building (39), room 104</p> <p>Presenters Rujira Chaysiri: Developing the Logical Method for Converting the Multiple-transmission-pathway System Dynamics Model to the Agent-based Modeling and Simulation</p> <p>Elizabeth Ong: Critical Thinking in System Dynamics</p> <p>Akira Uchino: Where is System Dynamics situated within Soft/hard systems and soft/hard approach?</p> <p>Panel Discussion for System Dynamics Education and Method</p>	<p>Workshop: SESAMME General Purpose North 3 Building (39A), room 208</p> <p>Presenters Carl Smith, Russell Richards and Ninad Jagdish</p>
2.30-3pm	<p>Afternoon Tea Abel Smith Lecture Theatre (23), foyer</p>			
3-4pm	<p>Plenary Session Two (Chair: Bill Grace) Abel Smith Lecture Theatre (23), room 101</p> <p>Presenters</p> <ol style="list-style-type: none"> 1. Takashi Ogawa: Dynamic Inventory Model and Analysis for Semiconductor Silicon Wafer Material 2. Ellis Ballard: Community Based System Dynamics and social and ecological systems in India: Looking back at 12 Years of collaboration 3. Nefel Tellioglu: Automated Discovery of Causality and Polarity from Data 			
4-4.30pm	<p>Conference Closing (Chair: Carl Smith) Abel Smith Lecture Theatre (23), room 101</p>			



For a detailed map of UQ St Lucia campus, visit <https://maps.uq.edu.au/st-lucia> or download the UQ Nav App from the Apple or Google Play stores