

OP·SIT·ARA 2023



The Te Pūkenga Region 4 Research Symposium (OPSITARA 2023) will be held at Te Rau o te Huia (Southern Institute of Technology Centre for Creative Industries) from 10:00 on Thursday 30th November to 15:20 on Friday 1st December. There will be up to three sessions running in parallel. To allow time for questions and speaker changeover, the programme allows 20 minutes for 15-minute presentations, and 7 minutes for 5-minute in-person presentations.

A map of Te Rau o te Huia is provided at the end of this document. The three main presentation locations for the symposium are:

- The main Church lecture space (JG20)
- Performance Studio One (JG16)
- The Multimedia Room (J205)

The first two spaces are on the ground floor, and the multimedia room is on the second floor accessible from the ground floor Foyer via stairs or a lift. Food will be served in the Foyer, and registration will be available from 09:00 at the desk in the Foyer.

Pre-recorded talks will be presented primarily in the Multimedia Room (J205). Individual pre-recorded talks and sessions will be linked in the final programme, and a full playlist of all talks will be available online.

Thursday 30 November

10:00-11:00

Mihi Whakatau

Church (JG20)

Welcome to the symposium from Raniera Dallas, Daryl Haggerty, Sally Bodkin-Allen & James Savage (Southern Institute of Technology), followed by morning tea.

11:00-12:00

RCoP Meeting: Health & Wellbeing

Church (JG 20)

Organisers: Sally Baddock (Otago Polytechnic) Anita Jagroop-Dearing (Eastern Institute of Technology) Phil Hancock (Otago Polytechnic)

RCoP Meeting: Construction & Infrastructure Performance (JG16)

Organisers: Rehan Masood (Otago Polytechnic) Samantha Menike (Southern Institute of Technology) Sadegh Aliakbarlou (Unitec Institute of Technology) Mazharuddin Syed Ahmed (Ara Institute of Canterbury) Adam Khan (Ara Institute of Canterbury) Rizwan Ali (UCOL) Nick Wilson (Otago Polytechnic)

RCoP Meeting: Business

Multimedia (J205)

Organisers: Neeru Choudhary (The Open Polytechnic of New Zealand) Pii-Tuulia Nikula (Eastern Institute of Technology) Indrapriya Kularatne (Otago Polytechnic Auckland International Campus)

12:00-13:00

Lunch

Foyer

13:00-14:20

Teaching & Learning 1

Church (JG 20)

The impact of two COVID-19 lockdowns on New Zealand tertiary education students studying at a regional Polytechnic (20m) William Jenkins (UCOL)

Lecturing for Neurodiversity: A Guide to Inclusive Teaching (20m) Rachel van Gorp (Otago Polytechnic)

Learning for all: Designing for Learning in our Work-based contexts (20m) Amy Benians (Otago Polytechnic) Helen Mataiti (Otago Polytechnic)

Creating a sense of community and wellbeing through events (20m) Rachel Byars (Otago Polytechnic)

Construction & Infrastructure 1

Performance (JG16)

Engineering Undergraduates: Is there a correlation between engagement and performance in an online setting? (20m) Hyun Chan Kim & Jai Khanna (Waikato Institute of Technology)

The additional fee for infrastructure design services beyond the initially agreed scope of work (20m) Samantha Menike (Southern Institute of Technology)

Developing Micro-credential content for teaching Māori Sustainable values using Building Information Modeling (BIM), Immersive Learning Theories and Culturally Sensitive Pedagogies (20m) Mazharuddin Syed Ahmed & Adam Khan (Ara Institute of Canterbury)

Critical Analysis of Invercargill Road Network in Case of Natural hazards (20m) Mujaddad Afzal (Southern Institute of Technology) Rehan Masood (Otago Polytechnic)

Health & Wellbeing (prerecorded)

Multimedia (J205)

The inclusion and exclusion experiences of kaiako with disabilities in early childhood education in Aotearoa New Zealand (10m) Kerry Purdue (Open Polytechnic)

Breathing Retraining and Manual Therapy for long COVID – A scoping review (10m) Zoe Steele (Ara Institute of Canterbury)

An exploration of the push and pull factors for New Zealand registered nurses who move from clinical practice roles to nursing education. (10m) Andrew Toneycliffe (Ara Institute of Canterbury)

Food and nutrition perceptions and practice and sustainability in urban Vietnam: Insights from a school survey in Ha Noi (10m) Angie Dang (NorthTec)

Engagement of New Zealand Allied Veterinary Professionals with Continuing Professional Development - a meta-analysis (10m) Kristina Naden (Otago Polytechnic)

The strength and conflicts of the Human-Animal Bond (10m) Francesca Brown (Otago Polytechnic)

Comparison of iron content in kōkihi (New Zealand native spinach) and *Spinacia oleracea* by flame atomic absorption spectroscopy (10m) Barbara Dolamore (Ara Institute of Canterbury)

14:20-14:50

Afternoon Tea Break

Foyer

14:50-16:10

RCoP Meetings: Teaching & Learning & IT

Church (JG 20)

15:20-16:00: Scholarship of Teaching and Learning

Organisers: Sonja Swale (Southern Institute of Technology) Claire Goode (Otago Polytechnic)

16:00-16:40: Information Technology

Organisers: Hamish Smith (Otago Polytechnic) Alison Clear (Eastern Institute of Technology) Emre Erturk (Eastern Institute of Technology)

Business 1 (Hospitality)

Performance (JG16)

The Culinary Koha Project: a Ringa Hora and Te Pūkenga collaborative project to rethink hospitality education. (20m) Adrian Woodhouse (Otago Polytechnic)

Abandoning the siloed curriculum and embracing holistic and integrated portfolios: A culinary arts story (7m) David Gillespie (Otago Polytechnic)

Sizzled creations & culinary care: Transforming burnt cheese rolls into hauora champions (7m) Juliane Tautz (Otago Polytechnic)

Mastery in the Making: A Case for Deliberate Practice within Vocational Education (7m) Hayley Dodd (Otago Polytechnic)

Inventory Reordering Point Optimisation Model Based on Demand Forecasting in SME Food and Beverage Sector: The Case Study of Indonesian Pancake Takeaway Restaurant (20m) Putragama Hiangsena (Southern Institute of Technology)

Construction & Engineering (prerecorded)

Multimedia (J205)

An analysis of embodied carbon in student accommodation buildings in Southland (10m) Samantha Menike (Southern Institute of Technology)

Assessing Solar Energy with a Hybrid Ray-Tracing Model: Open-Source Implementation as a Service (10m) Naveed Rehman (Southern Institute of Technology)

Skill requirements for Low-Prefabricated Timber Building Technologies (10m) Sadegh Aliakbarlou (Unitec Institute of Technology) Rehan Masood (Otago Polytechnic)

Improving Prefabrication Supply Chain to Alleviate the Housing Shortage (10m) Sadegh Aliakbarlou (Unitec Institute of Technology) Rehan Masood (Otago Polytechnic)

Application of Circular economy principles by Prefabricated housebuilding companies (10m) Rehan Masood (Otago Polytechnic) Samantha Menike (Southern Institute of Technology)

Developing Sustainable Airless Tyre Technology for Enhanced Performance and Durability (10m) Carlo Gabriel (Southern Institute of Technology)

Construction practices reworked. (10m) Chris Fersterer (Te Pūkenga)

Cyclone Gabrielle Housing Recovery through Prefabricated Construction (10m)
Rizwan Ali (UCOL) Rehan Masood (Otago Polytechnic)

16:20-17:00

Lightning Talks: Teaching & Learning

Church (JG 20)

Reimaging Bourdieu in Aotearoa New Zealand 2023 (7m) Selena Coburn (Southern Institute of Technology)

First I was afraid, I was petrified - without my clunky old assessment practice by my side (7m)
Fiona McLaren (Otago Polytechnic)

How a big idea can inspire students and take flight (7m) Mark Wilson (Nelson Marlborough Institute of Technology)

How does fostering psychological safety support engagement and improve educational outcomes for level 5 ākonga? (7m) Andrea Jones & Wendy Olsen (Nelson Marlborough Institute of Technology)

The influence of personal experience on teaching practice (7m) Maria Grace (Otago Polytechnic)

From written to visual, how to communicate the unknown- a doctoral journey (7m) Tim Lynch (Otago Polytechnic)

Lightning Talks: Construction

Performance (JG16)

Developing a Whole Life Costing Analysis for the SIT International House Building (7m)
Samanthi Menike (Southern Institute of Technology)

Critical Success factors for Indigenous construction companies in New Zealand (7m)
Rehan Masood (Otago Polytechnic) Samanthi Menike (Southern Institute of Technology)

Root causes of Request for Information (RFI) on commercial construction projects (7m)
Rehan Masood (Otago Polytechnic) Sadegh Aliakbarlou (Unitec) Mujaddad Afzal (Southern Institute of Technology)

Application of building information modelling in prefabricated Housebuilding (7m)
Rehan Masood (Otago Polytechnic) Samanthi Menike (Southern Institute of Technology) Nick Wilson (Otago Polytechnic) Mujaddad Afzal (Southern Institute of Technology)

Collaborative Value Management through automated Quantity take-off of Buildings – A Learner's perspective (7m) Rehan Masood (Otago Polytechnic) Nick Wilson (Otago Polytechnic)

Mapping Quantity Surveyor Graduate profile against NZIQS Competency Standards (7m)
Rehan Masood (Otago Polytechnic) Nick Wilson (Otago Polytechnic)

Lightning Talks: Health & Wellbeing

Multimedia (J205)

An exploration into the work life balance experience by Nurse Managers working in public (DHB hospitals) and private sector (aged care sector) in Southland, New Zealand. (7m)
Natasha Cunningham (Southern Institute of Technology)

The Time of their Lives: How the oldest-old are enriching our understanding of Successful Aging (7m)
Trish Conradson (Southern Institute of Technology)

New Graduate nurses experiences of caring for patients with pain in the acute hospital setting (7m)
Jane Elder (Southern Institute of Technology)

Summative Assessments - Does it predict clinical performance or it a barrier to nursing student progression? (7m) Michelle Miller (Southern Institute of Technology)

Time to Warm Up (7m) Debbie Watson & Katrina Bowes (Southern Institute of Technology)

What interventions exist to train nurses to communicate bad news?" - A Systematic Review (7m)
Paula Stephenson (Southern Institute of Technology)

17:00-19:00

Grazing Platters

Foyer

Enjoy food and drink as you view the posters and creative showcase throughout the venue.

Research Posters

Church (JG 20)

Session Chair: James Savage

Information for Researchers: Te Pūkenga Publishing Group (poster) James Savage (Southern Institute of Technology) Lesley Brook (Otago Polytechnic)

The Tokyo Olympics had no Soul (poster) Peter Olsen & Graeme Harris (Ara Institute of Canterbury)

Nurturing an effective and enjoyable inter-institutional research group: An autoethnography (poster)
Peter Olsen (Ara Institute of Canterbury)

Property cards: serious games in Materials Engineering (poster) Jonathan Muhl (Southern Institute of Technology)

Micro-investigators: citizen science in Southland around microplastics (poster) Karen Luttrell (Southern Institute of Technology)

Creative Showcase

Throughout the Venue

Session Chair: Sally Bodkin-Allen

Triangulation of Handcraft Artwork, Short Film Production and Live Music Performance (artwork/performance) Jay Horan (Te Pūkenga)

Intentional Camera Movement in Unmanned Aerial Vehicle (UAV) photography: Methodology and Process Clive Copeman (SIT2LRN)

Intentional Camera Movement in Unmanned Aerial Vehicle (UAV) photography: An Exhibition Clive Copeman (SIT2LRN)

Virtually Unreal: Exploring the Applications and Limitations of LED Virtual Production Walls in Emerging Virtual Production Technology James Wilkinson (Southern Institute of Technology)

Down the Rabbit Hole: My Continued Journey of Discovery into the Land of Animation Patrick Gillies (Southern Institute of Technology)

Exploring Interconnectedness through Found Objects and Local Waste: A Cross-Cultural Investigation James Smith-Harvey (Eastern Institute of Technology)

The Hands of the Artist: Neo-Artisan/Digital Pipelines in the Screen Arts Traci Meek-Reid (Southern Institute of Technology)

Not Sitting Down Quietly: The Work of Sandra Thomson Dorothee Pauli (Ara Institute of Canterbury)

Teaching game theory through game play Rachel Mann (Southern Institute of Technology)

Augmenting Brown Noise Within a Chorus of White Noise Caylieh Hausser-See (Southern Institute of Technology)

Time Travelling in Aotearoa: Using Unreal Engine To Visualise Pre-European Ōtākou Morgan Oliver (Otago Polytechnic)

Friday 1 December

09:00-10:20

Teaching & Learning 2

Church (JG 20)

Meeting the challenge of AI and assessment security (20m) Bruno Balducci (Otago Polytechnic Auckland International Campus)

Are we prepared for assessing AI content? (20m) Rehan Masood & Maria Grace (Otago Polytechnic)

AI in vocational education: Interim findings from a study integrating AI into learning activities across six disciplines (20m) Selena Chan (Ara Institute of Canterbury)

Alternative modalities of postgraduate research assessment (20m) Lesley Brook (Otago Polytechnic)

Health & Wellbeing 1

Performance (JG16)

The Psychological Experiences of Indoor and Outdoor Rock Climbers (20m) Patrick Boudreau (Ara Institute of Canterbury)

They did not know how to journey with me: Injury experiences in Women's rugby (20m) Phil Handcock (Otago Polytechnic)

A Workplace Health and Wellness Case Study (20m) Regan Cotter (Careerforce)

Exploring the impact of remote work on the psychological wellbeing of software professionals in New Zealand (20m) Jayani Dissanayake (Otago Polytechnic Auckland International Campus)

Business (prerecorded)

Multimedia (J205)

Exploring Factors Influencing the Success and Failure of Rural Micro-enterprises in Choiseul Province, Solomon Islands (10m) Mitra Etemaddar (Unitec)

Data collection during a pandemic (10m) Puvanambihai Natanasabapathy (Open Polytechnic of New Zealand)

Enhancing Internal Financial Management in New Zealand Charities: Bridging Knowledge and Skill Gaps for Sustainable Community Impact (10m) Sujani Thrikawala (Waikato Institute of Technology)

The interactions of leverage and firm performance: The effects of agency costs (10m) Swati Puri (Weltec)

Addressing climate change: Insights from New Zealand's insurance industry and comparative perspectives (10m) Mary Gay Mendoza, Indrapriya Kularatne & Bing Dai (Otago Polytechnic Auckland International Campus)

Addressing Gender Pay Equity in the Future of Work (10m) Genevie Mendoza, Indrapriya Kularatne & Bing Dai (Otago Polytechnic Auckland International Campus)

Evolving Family Preferences: A Study of Airbnb Evaluations in New Zealand (2018-2023) (10m) Carl Gianelly Manalili (Unitec) Mitra Etemaddar (Unitec)

Implications of Geographical Indication Integration in Supply Chains: A Case Study of the Cashmere Industry Operating in the Global South (10m) Imran Ishrat (Ara Institute of Canterbury)

CSR communication through employees as spokespeople on social media (10m) Ninitha Hamza Koya (Wintec)

Engaging with Te ao Māori as a Marketer (10m) John OSullivan (Ara Institute of Canterbury)

10:20-10:50

Morning Tea Break

Foyer

10:50-12:10

Health & Wellbeing 2

Church (JG 20)

A Strengths approach to child welfare In Aotearoa New Zealand: collaboration is key. (20m)
Lorna Allott (Southern Institute of Technology)

Skirting the issue: barriers to discussing the links between animal abuse and family violence in veterinary practice (20m) Catherine Rice (Otago Polytechnic)

Actions to Address the Epidemic of Youth-Vaping Among Intermediate and High School Students in Aotearoa, New Zealand. (20m) Anita Jagroop-Dearing (Eastern Institute of Technology)

The Impact of The Floor© Boardgame on the Clinical Decision-Making Skill and Prioritisation Knowledge of Nursing Students (20m) Jenica Ana Rivero (Southern Institute of Technology), James Smith-Harvey (Eastern Institute of Technology)

Business 2

Performance (JG16)

The Power of Empathy: Preparing business graduates for communicating in a professional context (20m) Caryn Hayes, Rachel Byars, Helen Geytenbeek & Rachel van Gorp (Otago Polytechnic)

Customer Satisfaction Enhancement Using AI-based Feedback Systems (20m) Olufemi Omisakin & Indrapriya Kularatne (Otago Polytechnic Auckland International Campus)

Environmental Rhetoric vs. Reality: The Impact of Political Connections on Greenwashing in Developing Economies (20m) Sujani Thrikawala (Waikato Institute of Technology)

Perceptions of Southland Businesses: Required Skills of Accounting Graduates and Accounting Project Needs (20m) Lynley Woodward (Southern Institute of Technology)

Teaching & Learning (prerecorded)

Multimedia (J205)

Enhancing Learner Engagement through Collaborative Writing (10m) Sundeep Daggubati (Ara Institute of Canterbury)

Strategies for improving communication and feedback with learners in a Master of Applied Management Programme. (10m) Robyn Hill & Andy Ang (Southern Institute of Technology)

What can we do if online learning becomes a new norm? (10m) Jane Qin (Eastern Institute of Technology)

Critical Perspectives on Artificial Intelligence in Educational Contexts (10m) John Mumford (Southern Institute of Technology)

Reflection on research methodologies for a deaf student (10m) Marie-Louise Barry (Ara Institute of Canterbury)

Facilitation of postgraduate work-based learners: Lessons from a 'supervisor' (10m) Jo Kirkwood (Otago Polytechnic)

Exploring Universal Design for Learning in a post-secondary vocational setting (10m) Mia Silverman (Te Pūkenga)

NorthTec | Te Pūkenga Student Attrition Survey 2023: Initial Findings (10m) Angie Dang (NorthTec)

Teaching practice: a visual approach to design for screens (10m) Martin Kean (Otago Polytechnic)

Adopting business simulations to bridge theory and practice to support learning facilitation. (10m)
Edwin Rajah (Otago Polytechnic Auckland International Campus)

12:10-13:10

Lunch

Foyer

13:10-13:50

Lightning talks: Communities & Institutions

Church (JG 20)

What is happening to our local food growers in Aotearoa? (7m) Anna Palliser (Southern Institute of Technology)

An Analysis of Cyber Security Awareness among Students and Staff of Southern Institute of technology-Te Pūkenga (7m) Abdul Rehman & Oras Baker (Southern Institute of Technology)

Unleashing the Potential of ChatGPT: Enhancing Higher Education through well-engineered Prompts (7m) Tony Heptinstall (Otago Polytechnic)

The impact of New Zealand's performance-based research funding system on accounting academics (7m) Sharon Manasseh (Wintec)

Re-designing and re-delivering a Virtual Exchange Programme for first year Bachelor of Environmental Management students. Lessons from practice (7m) Jordon Traill (Southern Institute of Technology)

Lightning talks: Engineering & Infrastructure Performance (JG16)

Testing Fuel at the pump (7m) Graeme Harris (Ara Institute of Canterbury)

A comparison of weight loss and gas flow data for micro-fermentation monitoring (7m) Jonathan Muhl (Southern Institute of Technology)

Impact of the Edendale roundabout on the safety and mobility of SH-1 (7m) Mujaddad Afzal (Southern Institute of Technology) Rehan Masood (Otago Polytechnic)

Comparative spatial intelligence of indigenous architectural expressions informing Māori architecture of Aotearoa. (7m) Adam Khan (Ara Institute of Canterbury)

The impact of sound in the spatial self awareness of tertiary students. A review of qualitative and quantitative research studies based on Post-Occupancy Evaluation of tertiary learning spaces. (7m) Dian Muñoz (Ara)

13:50-14:50

Teaching & Learning 3

Church (JG 20)

The Big Picture: Visual literacy in teaching & learning (20m) Ana Terry (Otago Polytechnic)

Communities in the Mist: Exploring the Community of Practice Model for Professional Development" to more clearly describe the aim and findings of our work (20m) Amy Benians (Otago Polytechnic)

A tale of two degree-apprenticeships: Embedding work integrated learning degrees in the New Zealand vocational education environment (20m) James Mackay & Hana Cadzow (Otago Polytechnic)

Business 3

Performance (JG16)

Challenges and Opportunities of Modern Slavery Legislation for New Zealand SMEs (20m)
Terry Quilty (Manukau Institute of Technology)

Regenerative Tourism: Paving the Way for Sustainable and Resilient Tourism Education in New Zealand. A master's thesis (20m) Helen Geytenbeek (Otago Polytechnic)

New Zealand's competitiveness as an international tertiary education destination, post-pandemic (20m) Renuka Narayan (Manukau Institute of Technology)

Creative (prerecorded)

Multimedia (J205)

Podcasting Future Post Covid (10m) Brendan Reilly (New Zealand Broadcasting School at Ara Institute of Canterbury)

An interdisciplinary reflective learning practice in the design studio (10m) Mazin Bahho (Eastern Institute of Technology)

14:50-15:20

Awards & Closing

Church (JG 20)

Raniera Dallas, Sally Bodkin-Allen & James Savage (Southern Institute of Technology)

Research Communities of Practice: Suggested Session Structure

Research Communities of Practice across Te Pūkenga are networks that aim to build capacity, support, and opportunities for those engaged in research in a particular field.

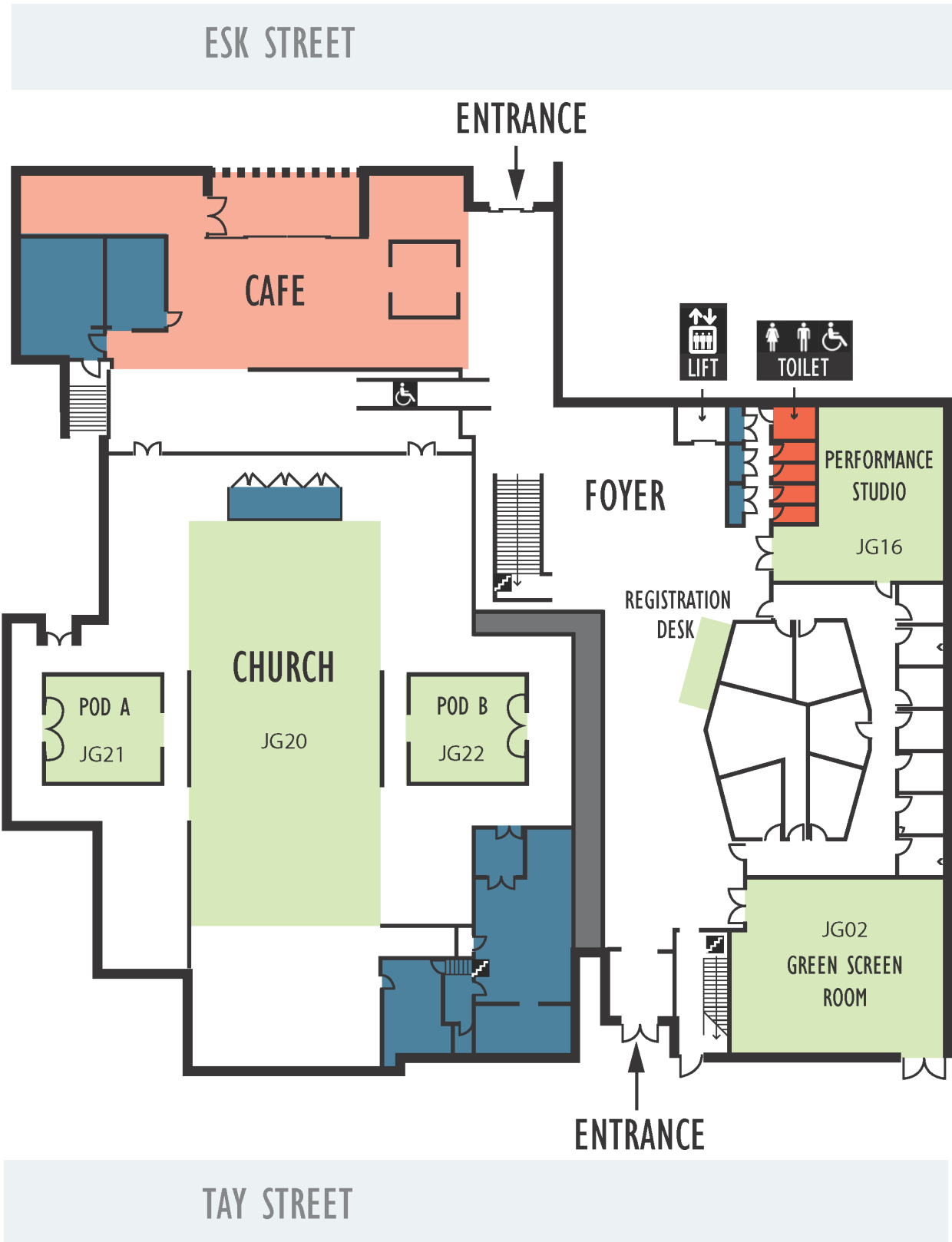
The RCoP sessions at the symposium are intended to facilitate discussion and collaboration. Anyone interested in the field is encouraged to attend and contribute their perspectives. RCoP co-chairs or other nominated members will lead the meetings, moderating discussions between attendees.

As RCoPs are led collectively by their members, organisers and attendees are free to set the session style and direction. However, we recommend that discussions cover some or all of the following areas:

- 1) **Introduction:** Briefly introduce the co-chairs / panel / organisers of the meeting and any current activities/projects of the RCoP.
- 2) **Research Aims and Focus:** Discuss the scope of the RCoP, and establish the current focus and objectives of the group.
- 3) **Membership:** How to ensure those working in the field across Te Pūkenga are aware of the RCoP and have opportunities to join and contribute.
- 4) **Development:** Activities the group might be interested in pursuing, for example developing a database of expertise, organising a Meet and Greet, conducting a 'horizon scan' for the field, or creating an action plan.
- 5) **Research Groups and Centres:** What clusters of research expertise already exist in ITPs across the network? What new clusters could be formed as Te Pūkenga unifies?
- 6) **Collaboration & Funding:** Are there current or future opportunities for collaborative research projects and/or joint funding applications that can be identified?

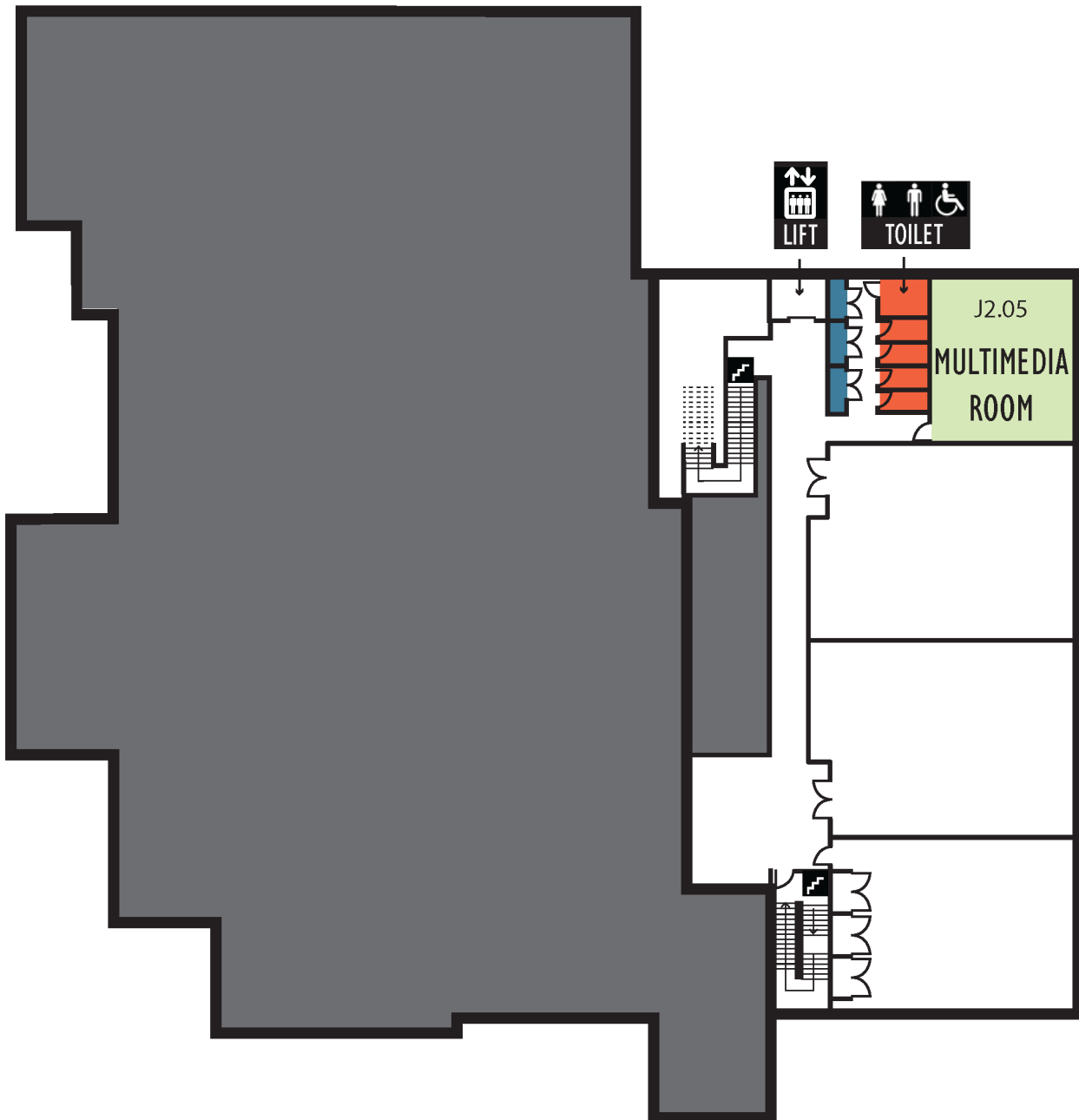
We also recommend that one attendee takes notes on attendance and on the discussion, for the benefit of those RCoP members not able to attend.

TE RAU O TE HUIA - GROUND FLOOR



TE RAU O TE HUIA - SECOND FLOOR

ESK STREET



TAY STREET