

**DAY 0: TUESDAY 3 SEPTEMBER 2019 - PRE CONFERENCE WORKSHOPS**

<b>8.00am – 5.00pm</b>		<b>Registration</b>			<i>Queensland Terrace, State Library of Queensland</i>
<b>9.00 – 12.30pm</b>	<p><b>W1A: Creating open-ended design thinking experiences in a walk-up public maker/tinker space</b></p> <p>Room: Innovation Lab</p> <p>Facilitator: <b>Dylan Barker</b>, Queensland Museum, Australia</p>	<p><b>W1B: Saturated play - a disruptive approach to exhibits, queues and diversity in museums and science centres</b></p> <p>Room: Heritage Collections Learning Room</p> <p>Facilitators: <b>Kate Kneale &amp; Richard Houghton</b>, HKD, United Kingdom, <b>Shivani Singhal</b>, Dharohar, India &amp; <b>Dr Bryce Kositz</b>, AFHEA, Australia</p>	<p><b>W1C: Creating new science exhibitions - working with fabricators and designers</b></p> <p>Room: White Gloves Room</p> <p>Facilitator: <b>CK Yip</b>, Independent, Hong Kong</p>	<p><b>ASPAC Executive Meeting</b></p> <p>Room: QM Learning Studio</p>	
<b>12.30 – 1.30pm</b>		<b>Lunch (for workshop participants only)</b>			<i>Queensland Terrace, State Library of Queensland</i>
<b>1.30 – 5.00pm</b>	<p><b>W2A: Level up! Science show workshop</b></p> <p>Room: Innovation Lab</p> <p>Facilitators: <b>Graham Walker</b>, Australian National University, Australia, &amp; <b>Revathy Dasan</b>, Science Centre Singapore</p>	<p><b>W2B: Petrosains design thinking process appetiser workshop</b></p> <p>Room: Heritage Collections Learning Room</p> <p>Facilitators: <b>Foo Huey Chyun &amp; Nensirati Supahan</b>, Petrosains, Malaysia</p>	<p><b>ASPAC CEO Forum (until 3.30pm)</b></p> <p>Room: QM Learning Studio</p>		

## DAY 1: WEDNESDAY 4 SEPTEMBER 2019 – VALUING THE PAST TO INFORM THE FUTURE

8.00am – 6.30pm		Registration		Boulevard Foyer, Brisbane Convention and Exhibition Centre	
9.00 – 10.30am	<b>Opening Plenary:</b> Welcome & Keynote Speaker The Taste of TUNA: Preparing for worlds we didn't see coming, <b>Dr Matt Finch</b> , <i>Mechanical Dolphin, United Kingdom</i> How do we get to grips with the future, if we cannot gather evidence from events which haven't happened yet? What happens to strategy when we face "TUNA" conditions, characterised by turbulence, uncertainty, novelty, and ambiguity? This presentation will explore strategy and foresight for Science and Technology Centres in times of change.			Boulevard Auditorium	
10.30 – 11.00am	<b>Morning Tea &amp; exhibition opening</b>			Boulevard Foyer	
11.00am – 12.30pm	<b>Plenary:</b> Senior ASPAC Leaders Set the Scene Join <b>TM Lim</b> , President of ASPAC, as he shares his reflections on the Asia Pacific Network of Science and Technology Centres and outlines his vision for ASPAC into the future. Have your questions ready for an open discussion with the ASPAC Executive, as we explore the future directions and impacts of science communication and STEM engagement across the region.			Boulevard Auditorium	
12.30 – 1.30pm	<b>Lunch</b>			Boulevard Foyer	
1.30 – 3.00pm	<b>1A: SDGs and a framework for the future</b> Room: <i>Boulevard Auditorium</i>	<b>1B: Indigenous ways of knowing - science in context of culture</b> Room: <i>B1</i>	<b>1C: Inquiry learning in practice - where do we grow from here?</b> Room: <i>B2</i>		
1.30pm	"Cutting & Edgy" - communicating research with societal dimensions in science centre contexts, <b>Graham Walker</b> , <i>Australian National University, Australia</i>	Indigenous/traditional technology and the Modern Science Center, <b>Robert Mac West</b> , <i>Informal Learning Experiences, United States of America</i>	SparkLab: Developing a visitor-centred, inquiry learning science centre, <b>Rebekah Collins</b> , <i>Queensland Museum, Australia</i>		
1.45pm	A climate of change: Using multimedia to inspire global connections for local solutions, <b>Ashley Larose</b> , <i>Science North, Canada &amp; Science Centre, Singapore</i> , & <b>Daniel Tan</b> , <i>Science Centre Board, Singapore</i>	Telling a culturally inclusive human and environmental history of Australia, <b>Geraldine Mate</b> , <i>Queensland Museum, Australia</i> , <b>Chantal Knowles</b> , <i>Monash University, Australia</i>	From 'hit and run' to STEM Nurturing - Intensified Program (SNIP), <b>Dr YL Khong</b> , <i>Tech Dome Penang, Malaysia</i>		
2.00pm	A framework for the future: We can't get there alone, <b>Natalie Das</b> , <i>Ontario Science Centre, Canada</i>	Indigenous ways of knowing in multicultural background: A case study of wooden arch bridge, <b>Qi Liu</b> , <i>China Science &amp; Technology Museum, China</i>	Engaging kids from 1 year in playful science learning through co-creation with families & professionals, <b>Kim Gladstone Herlev</b> , <i>Experimentarium, Denmark</i>		

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2.15pm	Performant STEM/Science Education: what links between formal and informal science education in AP region science centres & museums?, <b>Dr Ai Sugiura</b> , UNESCO, Indonesia	Braving mountains and crossing rivers: Western science and Katutubong kaalaman (Indigenous Knowledge) in science education in the Philippines, <b>Christerbert De Silva</b> , The Mind Museum, Philippines	Gamifying informal learning: A case study of designing educational escape game to communicate STEM, <b>Foo Huey Chyun</b> , Petrosains, Malaysia		
2.30pm	Discussion	Stars spark, <b>Mok Li Hui</b> , Science Centre, Singapore	Discussion		
2.45pm		Discussion			
3.00 – 3.30pm	<b>Afternoon Tea</b>			Boulevard Foyer	
3.30 – 5.00pm	<b>2A: Cultural session</b> Room: Boulevard Auditorium	<b>2B: SDGs workshop</b> Room: B1	<b>2C: Hands-on learning workshop</b> Room: B2	<b>2D: Escape game</b> Room: Queensland Museum Learning Studio	<b>2E: Drones</b> Room: Queensland Museum Theatre
3.30pm	Banaam cultural intelligence presentation	SDGs Workshop: Climate Action Achieving SDGs through a dialogue, <b>Naoya Takahashi</b> , Miraikan, Japan <i>*Pre-registration required, maximum of 40 attendees</i>	Rethinking science demonstrations to support visitor led inquiry: Science Bar, <b>Dylan Barker</b> , Queensland Museum, Australia	Survive on Mars – An educational escape game by Petrosains, The Discovery Centre, <b>Foo Huey Chyun &amp; Nensirati Bt Supahan</b> , Petrosains, Malaysia <i>*Pre-registration required, maximum of 25 attendees</i>	The Singapore STEM Education study: STEM applied learning through using Tynker & Drones, <b>Doris Lim, Yew Hock Tan</b> , Science Centre, Singapore, <i>*Pre-registration required, maximum of 25 attendees</i>
4.00pm			Saturated play - a disruptive approach to exhibits, queues and diversity in museums and science centres, <b>Kate Kneale &amp; Richard Houghton</b> , HKD, United Kingdom, <b>Shivani Singhal</b> , Dharohar, India, <b>Dr Bryce Kositz</b> , AFHEA, Australia	Survive on Mars – An educational escape game by Petrosains, The Discovery Centre, <b>Foo Huey Chyun &amp; Nensirati Bt Supahan</b> , Petrosains, Malaysia <i>*Pre-registration required, maximum of 25 attendees</i>	
4.45pm					
5.45pm					
5.00 – 6.30pm	<b>Networking Function</b>			Boulevard Foyer	

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**DAY 2: THURSDAY 5 SEPTEMBER 2019 – CURRENT & EMERGING TRENDS IN SCIENCE ENGAGEMENT**

8.00am – 5.00pm		Registration		Boulevard Foyer, Brisbane Convention and Exhibition Centre	
9.00 – 10.30am	<b>The Swings and Roundabouts of Public-Private Partnerships</b> Corporate entities and government institutions such as museums and science centres are completely different beasts at first glance. So then, why do they so often form partnerships and how do they make them work? This session will feature champions from both 'sides' of the private/public divide in a lively and ultimately positive examination of what such relationships involve in practice, how their respective investments stack up and whether true symbiosis is really achievable, <b>Carol Pobre</b> , <i>The Mind Museum, Philippines</i> , <b>Kirsten Snyman</b> , <i>QGC, Australia</i> & <b>Paul Gurney</b> , <i>Creative Partnerships Australia, Australia</i>			Boulevard Auditorium	
10.30 – 11.00am	Morning Tea			Boulevard Foyer	
11.00am – 12.30pm	<b>Supersized Think-pair-share</b> If partnerships offer the promise of shared value, how might we develop novel partnerships that engage our local communities in creating change for more sustainable futures? This Supersized Think-pair-share session allows for rounds of peer discussion, allowing you to form new relationships quickly and to explore the ways in which you can put partnerships to work. Facilitators: <b>Kristin Alford</b> , <b>Lisa Bailey</b> , <i>MOD. at UniSa, Australia</i> , & <b>Mikko Myllykoski</b> , <i>Heureka Science Centre, Finland</i>			Boulevard Auditorium	
12.30 – 1.30pm	Lunch			Boulevard Foyer	
1.30 – 3.00pm	<b>3A: Putting the 'I' in science: Inquiry and hands on programs</b> Room: <i>Boulevard Auditorium</i>	<b>3B: Collaborations and partnerships</b> Room: <i>B1</i>	<b>3C: Changing access to information in the digital age</b> Room: <i>B2</i>		
1.30pm	Fostering science in society through the Scientific Method, <b>Balasubramanian Rajeswari</b> , <i>Science Centre, Singapore</i>	From large science centres to small stematoriums, <b>CK Yip</b> , <i>Independent, Hong Kong</i>	The potential of digital tools and scientific imaging to unlock museum collections for learning worldwide, <b>Andrew Turley</b> , <i>Queensland Museum, Australia</i>		
1.45pm	Tinkering for schools – Collaborating to create tinkering curriculum & adoption, <b>Muhammad Shahrudin Bin Kasmuri</b> , <i>Science Centre, Singapore</i>	Imagining the seven siblings of Eucalara, <b>Kristin Alford</b> , <i>MOD. at UniSa, Australia</i>	Digital communications: Reaching out to diverse audiences on different platforms through relevant and creative storytelling, <b>Eng Yee Peng</b> , <i>Science Centre, Singapore</i>		
2.00pm	Designing and enhancing interactive exhibits for a greater focus on science inquiry skills, <b>Amy Boulding</b> , <i>Queensland Museum Network Australia</i>	Connecting the dots for a collective creativity, <b>Yeon-Seon Lim</b> , <i>National Science Museum, Korea</i>	Design IT system optimized for science museum – preparing for big data, <b>DongHeon Lee</b> , <i>Busan National Science Museum, Korea</i>		

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<b>2.15pm</b>	Let's talk science, <b>Venkateshwaran Aravind Perumal</b> , <i>Oil &amp; Gas Discovery Centre, Brunei Darussalam</i>	Connections of science centres and universities are mutually beneficial and enhance all parties, <b>Robert Mac West</b> , <i>Informal Learning Experiences, United States of America</i>	Utilising technology for impossible hands-on, <b>Octave Goh</b> , <i>Science Centre, Singapore</i>
<b>2.30pm</b>	The element of ArtScience - ArtScience Museum as an educational environment for open-ended learning, <b>Emma Lee</b> , <i>ArtScience Museum, Singapore</i>	Collaboration with overseas science institutes – take the “Incredible Science Camp” for example, <b>Stephanie Wu &amp; Hsiang Wei Chen</b> , <i>National Taiwan Science Education Center, Taiwan</i>	Reaching new audiences with STEM messages and experiences by using digital technologies, <b>Rod Thiele</b> , <i>CSIRO, Australia</i>
<b>2.45pm</b>	Discussion	STEM partnerships in regional communities, <b>Shelley Dunlop</b> , <i>Queensland Museum, Australia</i> , <b>Jared Wilkins</b> , <i>Questacon, Australia</i>	The design and development of the mobile application of science and technology museum exhibition and education in digital age: The example of CSTM magic page, <b>Leiwei Zhang</b> , <i>China Science &amp; Technology Museum, China</i>
<b>3.00pm – 3.30pm</b>	<b>Afternoon Tea</b>		<i>Boulevard Foyer</i>
<b>3.30 – 5.00pm</b>	<b>4A: Meeting people where they are – STEM outreach</b> <i>Room: Boulevard Auditorium</i>	<b>4B: Emotional engagement of exhibitions in the age of information</b> <i>Room: B1</i>	<b>4C: Storytelling through objects, images and exhibitions</b> <i>Room: B2</i>
<b>3.30pm</b>	Popularisation of science through collaboration among institutions. Case of exhibition and educational outreach program ‘small science museum to visit’, <b>Bomsok Lee</b> , <i>Busan National Science Museum, Korea</i>	Introduction, <b>Anita Beck</b> , <i>Questacon, Australia</i>	Science cross boundaries: Treasures of time - from the past to future, <b>Paulina Chan</b> , <i>Hong Kong Science Museum, Hong Kong</i>
<b>3.40pm</b>	Science on the road: Contextualising science for community, <b>Ashleigh Harrington</b> , <i>Australian Museum, Australia</i>	So many questions, so few answers, <b>Anita Beck</b> , <i>Questacon, Australia</i>	Beauty of science behind lens capturing, <b>Chonlaphat Meesomwat</b> , <i>National Science Museum, Thailand</i>
<b>3.50pm</b>	Science lab for outreach: Tools for inspiring and communicating science, <b>Tarmphong Luangboribun</b> , <i>National Science Museum, Thailand</i>	<i>Designing for teens, with teens</i> , <b>Jonathan Shearer</b> , <i>Scienceworks, Australia</i>	Creating engaging experiences onsite and online, <b>Doug Newton-Walters</b> , <i>Questacon, Australia</i> & <b>Mita Chabeli P. Pangan</b> , <i>The Mind Museum, Philippines</i>

<b>4.00pm</b>	Mobilizing STEM Education for learners with minimal exposure to modern-day resources, <b>Venkateshwaran Aravind Perumal</b> , Oil & Gas Discovery Centre, Brunei Darussalam	Begin with confidence, <b>Fathien Amirul</b> , Oil & Gas Discovery Centre, Brunei Darussalam	CREATING ENGAGING EXPERIENCES PART 1: ONSITE: Finding compelling narratives: Connecting visitors with the science in their lives, <b>Doug Newton-Walters</b> , Questacon, Australia
<b>4.10pm</b>	Thinking out of the box in STEM Learning, <b>Regina Ng Li Wen</b> , KidsSTOP™, Science Centre, Singapore	An academic in <i>SparkLab</i> : engaging a younger audience with contemporary adventures in science, <b>Sunny Sanderson</b> , Queensland Museum, Australia	
<b>4.20pm</b>	The Loggerhead Turtle 'Hatchery'- Promoting conservation through public engagement, <b>Patrick Couper</b> , Queensland Museum, Australia, <b>Maho Go</b> , World Science Festival Brisbane, Australia	Evaluation and evidence: emotions support learning, <b>Dr Lisa Bailey</b> , MOD. at UniSa, Australia	CREATING ENGAGING EXPERIENCES PART 2: ONLINE: Science for the easily-distracted, <b>Mita Chabeli P. Pangan</b> , The Mind Museum, Philippines
<b>4.30pm</b>	Science Week Roadshow to South West Queensland – An outreach program for remote primary schools, <b>Cam Mackenzie</b> , Amaroo Environmental Education Centre, Australia	Audience Q&A, led by <b>Dr Lisa Bailey</b> , MOD. at UniSa., Australia	
<b>4.40pm</b>	Addressing the challenges of STEM outreach in rural and remote communities, <b>Saba Sinai</b> , Central Highlands Science Centre, Australia		
<b>4.50pm</b>	Discussion	Sum up and concluding statements, <b>Dr Lisa Bailey</b> , MOD. at UniSa, Australia	Discussion

**5.30 – 9.30pm**

**Conference Dinner**

*Queensland Museum*

The Conference Dinner is an excellent opportunity for you to network and enjoy each other's company, surrounded by the unique sights and sounds of the Queensland Museum. You will get exclusive access to *NASA, A Human Adventure*, before networking drinks, speeches and a cultural performance by Nunukul Yuggera Aboriginal Dancers. A two-course sit down dinner highlighting local Australian produce will be served in amongst the extraordinary exhibitions. Queensland Museum's premier STEM engagement space, *SparkLab*, Sciencentre, will be open after dinner so that you can play, question, test, observe, talk and investigate the wonders of the world around you

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## DAY 3: FRIDAY 6 SEPTEMBER 2019 – CREATING A COLLABORATIVE FUTURE

8.00am – 3.00pm		Registration		Boulevard Foyer, Brisbane Convention and Exhibition Centre	
9.00 – 10.30am		<b>Trust me...I'm a scientist!</b> Public attitudes around science and technology are complex. Combined with the everyday reality of information overload, it is no wonder that people don't know what to believe or who to trust. What is the role of museums and science centres in this context? Should we instil non-biased questioning, proof seeking and attitudinal change...or should it be all about fun? <b>Bobby Cerini</b> , Questacon, Australia, <b>Dan Angus</b> , Queensland University of Technology, Australia & <b>Ove Hoegh-Guldberg</b> , University of Queensland, Australia		Boulevard Auditorium	
10.30 – 11.00am		Morning Tea		Boulevard Foyer	
11.00am – 12.30pm		<b>5A: Outreach across the ASPAC region</b> Room: Boulevard Auditorium	<b>5B: Evaluating STEM engagement and building on what works</b> Room: B1	<b>5C: Diverse programming for diverse audiences</b> Room: B2	
11.00am	Growing science centres in countries where they are missing: lessons from Africa to inform the ASPAC region, <b>Graham Walker</b> , Australian National University, Australia	Informal science learning in NTSEC: the learning outcomes and experience of weekday courses, <b>Shan-Yu Liu</b> , National Taiwan Science Education Centre, Taiwan	Nurturing & inspiring under-privileged students to become 'Young Scientists' through mentorship, <b>See Eng Sheng</b> , Science Centre, Singapore		
11.10am		Curious minds to confident learners, <b>Ashleigh Harrington</b> , Australian Museum, Australia	An empirical practice of how to achieve "No one should be left behind" at informal science setting, <b>Nelson C. C. Chen</b> , National Science & Technology Museum, Taiwan		
11.15am	Building better science communicators, <b>Shannon Ryan</b> , Mater Foundation, Australia				
11.20am		Exploring visitors' experience in science museum and exhibits, <b>Jieun Bae</b> , Busan National Science Museum, Korea	The science communication network that connecting individuals, laboratories and medias: Bring science to first scene, <b>Min Li</b> , China Science & Technology Museum, China		

<b>11.30am</b>	Expanding our reach - reaching out to the masses, <b>Lee Kuan Shern</b> , <i>Tech Dome Penang, Malaysia</i>	Study learning effect of visitors in science and technology museum through personal meaning mapping, <b>Qi Liu</b> , <i>China Science &amp; Technology Museum, China</i>	Lessons and learnings from a 3-year STEM engagement program in low enrolment schools, <b>Izhana Fitri Mohamed Rawi</b> , <i>Petrosains, Malaysia</i>
<b>11.40am</b>		Study on the effects of museum interpretive theatre program on the learning outcomes of children, <b>Hui-ling Chen</b> , <i>National Museum of Natural Science, Taiwan</i>	Learning for special ones, <b>Nazim Enes Altan</b> , <i>Bursa Science &amp; Technology Centre, Turkey</i>
<b>11.45am</b>	Challenges of implementing STEM Education - 21st century skills, <b>Timothy Tham</b> , <i>Science Centre, Singapore</i>		
<b>11.50am</b>		Exploratory factor analysis of parents' selection of education program at science museum, <b>Namyong Heo</b> , <i>Busan National Science Museum, Korea</i>	Improving personal ability on communication technology for elderly people in the neighbourhood of National Science Museum, <b>Pimphaka Saikhow</b> , <i>National Science Museum, Thailand</i>
<b>12.00pm</b>	The role of science centres in the citizen science landscape, <b>Yaela Golumbic</b> , <i>Australian National University, Australia</i>	Could online video improve public scientific literacy?, <b>Jui-Chou Cheng</b> , <i>National Science &amp; Technology Museum, Taiwan</i>	Discussion
<b>12.10pm</b>		Facilitation of teacher professional development by a Regional STEM Hub – what we've learnt so far, <b>Desley Pidgeon</b> , <i>Central Queensland University, Australia</i>	
<b>12.15pm</b>	OGDC: The pursuit of overtaking the STEM field, <b>Nur Karnina</b> , <i>Oil &amp; Gas Discovery Centre, Brunei Darussalam</i>		
<b>12.20pm</b>		Discussion	
<b>12.30 – 1.30pm</b>	<b>Lunch</b>		<i>Boulevard Foyer</i>
<b>1.30-3.00pm</b>	<b>Closing Ceremony &amp; ASPAC General Assembly</b> What are you taking away from your experience at ASPAC 2019? In the spirit of learning from the past to inform the future, <b>Bobby Cerini</b> , <i>Questacon, Australia</i> , and <b>Maribel Garcia</b> , <i>ASPAC, Philippines</i> share their experiences, reflections, and lessons learned, with additional insights from the ASPAC 2019 Fellowship recipients.		<i>Boulevard Auditorium</i>
<b>4.00-5.00pm</b>	Behind the Scenes Tour at Queensland Museum (pre-booking required)		

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## SATURDAY 7 SEPTEMBER 2019

<b>8.45am – 8.15pm</b>	Tangalooma Premium Dolphin Feeding Day Cruise (pre-booking required)
<b>10.00am – 11.15am</b>	Brisbane Segway Tour (pre-booking required)
<b>10.00am – 1.00pm</b>	Brisbane Aboriginal Cultural Tour – All About Aboriginal Art Walking Tour & Bush Tucker tasting (pre-booking required)
<b>10.00am – 3.30pm</b>	Lone Pine Koala Sanctuary Tour (pre-booking required)
<b>2.00pm – 3.15pm</b>	Brisbane Segway Tour (pre-booking required)