

STAVCON 2022: Sparking ideas: Building connections in Science education - Monday 28 November 2022

8.00am - 8.30am Registrations Community Expo Open at Union Hall										
with a light brekky & barista coffee upon arrival at Café Moat, Union Concourse & Union Hall										
8.45am - 8.55am Union Hall - LIVE stream Welcome, Acknowledgement of Country & Housekeeping: Alexandra Abela, STAV President										
8.55 am - 9.10 am Union Hall - LIVE Stream Introduction of Stacey Piper & Keynote Speaker: Alexandra Abela										
9.10 am - 10.00am Union Hall - LIVE Stream Keynote Address: Dr. Saeed Salimpour (IAU OAE/MPIA), Astronomy Education Research Coordinator International Astronomical Union's Office of Astronomy for Education										
10.00 - 10.05am - Short Break										
10.05 am - 10.35am Maria James Curriculum Manager, Science Vic. Curriculum Assessment Authority VCAA Update: Building connections across Foundation to 12 in Chemistry, Environmental Science and Physics Union Hall - LIVE Stream										
Erin Wilson Curriculum Manager, STEM Vic. Curriculum Assessment Authority VCAA Update: Building connections across Foundation to 12 in Biology, Psychology and STEM The Learning Commons (TLC) Building - Lecture Theatre 214 - LIVE Stream										
10.35am - 11.15am - Short Break										
Sessions 1 - 10	Session 1 - EC	Session 2 - Primary	Session 3 - Lower Secondary	Session 4 - VCE	Session 5	Session 6 - Lab Tech	Session 7 - Teacher Pedagogy	Session 8 - Teacher Pedagogy	Session 9 - Commercial	Session 10 - Commercial
Block Session A 11.15 am - 12.00 pm For all Teacher Pedagogy & Commercial sessions the duration is 20 minutes each - Session A1: 11:15am - 11:35am & Session A2: 11:40am - 12pm - refer to last 4 sessions	Session A - 11:15am - 12:00pm The Learning Commons Building (TLC) Classroom 212	Session A - 11:15am - 12:00pm The Learning Commons Building (TLC) Classroom 213	Session A - 11:15am - 12:00pm Union Hall - LIVE Stream	Session A - 11:15am - 12:00pm TLC Building - Lecture Theatre 214 - LIVE Stream	Session A - 11:15am - 12:00pm The Learning Commons Building (TLC) Classroom 216	Session A - 11:15am - 12:00pm The Learning Commons Building (TLC) Classroom 312	Session A1: 11:15am - 11:35am The Learning Commons Building (TLC) Classroom 313	Session A1: 11:15am - 11:35am The Learning Commons Building (TLC) Classroom 314	Session A1: 11:15am - 11:35am The Learning Commons Building (TLC) Classroom 316	Session A1: 11:15am - 11:35am The Learning Commons Building (TLC) Classroom 317
	Primary Science - Capturing Curiosity (Primary)	Astronomy during the school day (Upper Primary & Secondary)	Engaging Students Through Real Astronomical Data	VCE Physics: Connecting students with research through Neutrino Science at LBNF/DUNE	Connecting students with local ecosystems through STEM education.	We are going to the Moon again - why not study Model Rocketry	Putting education evidence to work in the secondary science classroom	More Than Just a Classroom: A Model for Building Meaningful Industry and Community STEM Partnerships	Innovative VCE Biology Masterclasses at KIOSC	BIOZONE Showcase their NEW Digital Platform and Latest Editions
	Angela White	Paul Butler	Robert Hollow	Chad Ronish - presenting virtually from the USA	Melissa Blacklock & Angie Atal Carreon	Peter Razos & Joe Zekan	Michael Rosenbrock	Sarah Chuck & Jacinta Devlin	Lucy Anders	Richard Allan
							Session A2: 11:40am - 12:00pm The Learning Commons Building (TLC) Classroom 313	Session A2: 11:40am - 12:00pm The Learning Commons Building (TLC) Classroom 314	Session A2: 11:40am - 12:00pm The Learning Commons Building (TLC) Classroom 316	Session A2: 11:40am - 12:00pm The Learning Commons Building (TLC) Classroom 317
							Building psychology into your school science	Teaching Ethics Across the Sciences - Building knowledge and skills in Middle Years.	Literacy Strategy: A novel way to support students in constructing writing science explanations using I.D.E.A	Object Based Learning for Scientific Inquiry
							Stephanie Walton	Anna Kissane	Dr Lucy Cassar & Catherine Bellair	Priscilla Gaff & Elke Barczak
12.00pm - 12.10pm - Short Break										
Block Session B: 12.10pm - 12.55pm For all Teacher Pedagogy & Commercial sessions the duration is 20 minutes each - Session A1: 12:10pm - 11:35am & Session A2: 11:40am - 12pm - refer to last 4 sessions	Session B - 12:10pm - 12:55pm The Learning Commons Building (TLC) Classroom 212	Session B - 12:10pm - 12:55pm The Learning Commons Building (TLC) Classroom 213	Session B - 12:10pm - 12:55pm The Learning Commons Building (TLC) Classroom 216	Session B - 12:10pm - 12:55pm The Learning Commons Building (TLC) Classroom 312	Session B - 12:10pm - 12:55pm TLC Building - Lecture Theatre 214 - LIVE Stream	Session B - 12:10pm - 12:55pm The Learning Commons Building (TLC) Classroom 313	Session B1: 12:10pm - 12:30pm The Learning Commons Building (TLC) Classroom 314	Session B1: 12:10pm - 12:30pm The Learning Commons Building (TLC) Classroom 316	Session B1: 12:10pm - 12:30pm Union Hall - LIVE Stream	Session B1: 12:10pm - 12:30pm The Learning Commons Building (TLC) Classroom 317
	Stick Insects in the Classroom	Connecting science education to bushfire risk reduction	Project-based learning: A tool to enhance students' critical thinking and problem-solving skills	Co-designed Guided Inquiry into Bioethics	Inspired by Science History	You and your science technician	Capabilities-driven Science: Connecting learning to the real world	Indigenous science and medicines	Innovative VCE Chemistry Masterclasses at KIOSC	Sparking Ideas and Building STEM confidence with LEGO Learning System
	Melanie Smith	Leigh Johnson & Neil Munro	Jay Chew & Farah Deeba	Gary Simpson & Amrita Kamath	Roland Gesthuizen & Dr. Robert Roe	Dale Carroll	James Bayard	Pat O'Shea	Dr Thelma-Jean Spence	Libby Moore
							Session B2: 12:35pm - 12:55pm The Learning Commons Building (TLC) Classroom 314	Session B2: 12:35pm - 12:55pm Union Hall - LIVE Stream	Session B2: 12:35pm - 12:55pm The Learning Commons Building (TLC) Classroom 316	Session B2: 12:35pm - 12:55pm The Learning Commons Building (TLC) Classroom 317
						"Making" a connected community	Using the VCAA's Digital Assessment Library to improve student learning	What's the Buzz around Engineering? SESSION CANCELLED	Future Foods Workshop: Experience Science Gallery Melbourne's creative & transdisciplinary approach to science education	
						Eleanor Wood & Dr Vicky Ellis	Jonathan MacLellan	Alyce Holland	Dr Vhairi Mackintosh & Bernadette Hall	

12.55pm - 1.50pm - Lunch Break & Community Expo - Hybrid Engagement (Live with Sponsors & Exhibitors)

Block Session C: 1.50pm - 2.35pm For all Teacher Pedagogy & Commercial sessions the duration is 20 minutes each - Session C1: 1:50pm - 2:10pm & Session C2: 2:15pm - 2:35pm - refer to last 3 4 sessions of Block C	Session C - 1:50pm - 2:35pm TLC Building - Lecture Theatre 214 - LIVE Stream	Session C - 1:50pm - 2:35pm The Learning Commons Building (TLC) Classroom 212	Session C - 1:50pm - 2:35pm The Learning Commons Building (TLC) Classroom 213	Session C - 1:50pm - 2:35pm The Learning Commons Building (TLC) Classroom 216	Session C - 1:50pm - 2:35pm The Learning Commons Building (TLC) Classroom 312	Session C - 1:50pm - 2:35pm The Learning Commons Building (TLC) Classroom 313	Session C1: 1:50pm - 2:10pm The Learning Commons Building (TLC) Classroom 314	Session C1: 1:50pm - 2:35pm (45 mins session) The Learning Commons Building (TLC) Classroom 316	Session C1: 1:50pm - 2:10pm - The Learning Commons Building (TLC) Classroom 317	Session C1: 1:50pm - 2:10pm Union Hall - LIVE Stream
	Building connections in the Primary Science classroom	Connecting students with real-world research challenges in agriculture to co-design and run STEM projects (Secondary)	Reading Rocks and Minerals: How to Make the Rock Cycle Exciting	Would a mole of marshmallows cover Australia?	How do we connect with our students about climate change?	The Science of Us – Measuring humans using datalogging equipment	Connecting Science with Literacy to Improve Learning Outcomes	Problem-based Learning in the Science classroom	FlushBack - connecting games, technology, and science learning	Connecting Sustainability to Students' Lives Across the Curriculum
	Carmen Wong & Kirsti LePage	Dr Kim Johnson & Dr Kate Richards	Dr James Driscoll	Jenny Sharwood	Keith Burrows	Stuart Lewis	Mardon Elian	Caroline Cotton	Emilie Nachtigall	Page Dosen & John Davison

	Session C2: 2:15pm - 2:35pm The Learning Commons Building (TLC) Classroom 314	Session C2: 2:15pm - 2:35pm Union Hall - LIVE Stream		Session C2: 2:15pm - 2:35pm The Learning Commons Building (TLC) Classroom 317
	Indigenous Perspectives in Science Education	The Vic. Academy of Teaching & Leadership Teaching Excellence Program: Building connections & sparking ideas in Science Education through Practitioner Inquiry		Creating a quantum spark. A hands-on guide for teachers to have the confidence to teach the quantum mechanics
	Dr Lakshmi Sharma	Chris Wines & Quyen Ngoc Thai		Jason Major

2.35pm - 2.45pm - Short Break

Block Session D: 2.45pm - 3.30pm For all Teacher Pedagogy & Commercial sessions the duration is 20 minutes each - Session D1: 2:45pm - 3:05pm & Session D2: 3:10pm - 3:30pm - refer to last 4 sessions	Session D - 2:45pm - 3:30pm The Learning Commons Building (TLC) Classroom 212	Session D - 2:45pm - 3:30pm The Learning Commons Building (TLC) Classroom 213	Session D - 2:45pm - 3:30pm The Learning Commons Building (TLC) Classroom 216	Session D - 2:45pm - 3:30pm TLC Building - Lecture Theatre 214 - LIVE Stream	Session D - 2:45pm - 3:30pm The Learning Commons Building (TLC) Classroom 312	Session D - 2:45pm - 3:30pm Union Hall - LIVE Stream	Session D1 - 2:45pm - 3:05pm The Learning Commons Building (TLC) Classroom 313	Session D1 - 2:45pm - 3:05pm The Learning Commons Building (TLC) Classroom 314	Session D1 - 2:45pm - 3:05pm The Learning Commons Building (TLC) Classroom 316	Session D1 - 2:45pm - 3:05pm The Learning Commons Building (TLC) Classroom 317
	Connection to Country	Science Experiments using Augmented Reality	STEM based, problem based learning - Our Experience	Connections between the Unit 2 VCE Sciences (Biology, Chemistry, Environmental Science): Sharing the fieldwork load	Moving away from test-style assessment tasks in preparation for VCE Sciences SESSION CANCELLED	Building connections in your makerspace	Educational Escape Rooms for Science Education	Creating student agency in the Science classroom	Marine Science Online: Empowering Students Through Online Education	STEM Design Sprints - Creating a better world together
	Amanda Peters	Bill Healy & Dr James Lau	Cherilyne Kingston & Naomi Linossier	Helen Silvester & Kate Adriaans	Cristy Herron	Kristen Hebden & Dr Emily Cook	Associate Professor Robert Ross	Denise Raven	Matt Montemurro	Emilie Nachtigall

	Session D2 - 3:10pm - 3:30pm The Learning Commons Building (TLC) Classroom 313	Session D2 - 3:10pm - 3:30pm The Learning Commons Building (TLC) Classroom 314	Session D2 - 3:10pm - 3:30pm The Learning Commons Building (TLC) Classroom 316	Session D2 - 3:10pm - 3:30pm The Learning Commons Building (TLC) Classroom 317
	What is science teaching for? A workshop discussion	How sparking ideas & building connections is empowering teachers in Science Education	How to implement robotics and coding in classrooms?	Electricity: The Shocking Truth (Secondary)
	Rod Fawns, Alexandra Abela, Robert Roe & Josie Crisara	Chris Wines & Sarah Edwards	Sharad Khanna & Simran Dhindsa	Spiro Liacos

3.40pm - 3.45pm Union Hall - LIVE stream Closing remarks, Alexandra Abela, STAV President

3.45pm - 4.45pm Union Hall - LIVE stream Post-Conference Drinks & Canapes at the Annexe & Community Expo Union Hall