



CHEMISTRY SUSTAINABILITY THROUGH A SCIENCE LENS

**STAV VCE
CONFERENCE
SERIES** Biology, Chemistry,
Environmental Science,
Psychology, Physics

WEDNESDAY 15 FEBRUARY 2023

8:00am - 8:30am	Registrations Community Expo Open University of Melbourne, Parkville Light breakfast provided upon arrival
	PLENARY: LIVE STREAM Kathleen Fitzpatrick Theatre, Arts West Building
8:45am - 8:55am	PRESIDENT'S WELCOME: Alexandra Abela, STAV President Chemistry Education Association Welcome: Mick Moylan, CEA Committee Representative
8:55am - 9:10am	ACKNOWLEDGEMENT OF COUNTRY: Stacie Piper
9:10am - 9:15am	INTRODUCTION OF KEYNOTE SPEAKER 1: Alexandra Abela, STAV President
9:15am - 9:50am	KEYNOTE SPEAKER 1: Dr Seamus Delaney (PhD SFHEA), Senior Lecturer (Science Education), and Science, Technology, Environmental Education (STEE) Discipline Head within the School of Education, Deakin University KEYNOTE ADDRESS: Positioning green and sustainable chemistry in the everyday chemistry classroom experience
9:50am - 9:55am	INTRODUCTION OF KEYNOTE SPEAKER 2: Dr Emily Rochette
9:55am - 10:30am	KEYNOTE SPEAKER 2: Dr Madeline Mitchell, Research Fellow, RMIT and Food Agility Cooperative Research Centre KEYNOTE ADDRESS: Supporting sustainable, climate-smart agriculture for healthy people and a healthy environment
10:30am - 10:35am	INTRODUCTION OF VCAA: Mick Moylan, CEA
10:35am - 11:10am	VCAA UPDATE: Sustainability Through a Chemistry Lens, Maria James, VCAA curriculum Manager, Science
11:10am - 11:15am	SHORT BREAK
11:15am - 12:00pm	SESSION BLOCK A
12:00pm - 12:10pm	SHORT BREAK
12:10pm - 12:55pm	SESSION BLOCK B
12:55pm - 2:00pm	LUNCH BREAK AND COMMUNITY EXPO
2:00pm - 2:45pm	SESSION BLOCK C
2:45pm - 2:50pm	SHORT BREAK
2:50pm - 3:35pm	SESSION BLOCK D
3:35pm - 3:40pm	SHORT BREAK
3:40pm - 4:30pm	PRESIDENT'S CLOSING REMARKS (FACE-TO-FACE): Alexandra Abela, STAV President with Post-Conference Celebration and Networking A word from our post conference event sponsor: Dr Seamus Delaney, Chemistry Education Association, President Passport game prize draw: Edrolo Atrium (foyer) Arts West Building, University of Melbourne

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SESSION 1 LIVESTREAM	SESSION 2	SESSION 3	SESSION 4	SESSION 5	SESSION 6	SESSION 7	SESSION 8
SESSION BLOCK A: 11:15am - 12:00pm Introducing First Nations perspectives through VCE Chemistry LOCATION: LIVE Stream - Kathleen Fitzpatrick Theatre, Arts West Building PRESENTED BY: Lisa Moloney	Hydrogen sponge cell - Fuel cell simplicity LOCATION: First Year Chemistry Lab, Room 188, L1, Chemistry Building PRESENTED BY: Cameron Senn-Sanger and Caitlin Ryan	A student designed investigation into sustainable water treatment solutions LOCATION: Room 453, L4, Arts West Building (North Wing) PRESENTED BY: Dr Adele Hudson and Dr Kshitija Dhuna	Hands on NMR and IR spectroscopy LOCATION: L3 Chemistry Lab, Room 385, L3, Chemistry Building PRESENTED BY: Mick Moylan	Hexagonal Thinking - a sustainable instructional strategy for literacy comprehension in Chemistry LOCATION: William Macmahon Ball Theatre, Room 107, L1, Old Arts Building PRESENTED BY: Miss Billie Murray	Units 1 & 2 Chemistry: Developing the new types of assessment tasks for sustainability LOCATION: Cuming Theatre, Room 178, Chemistry Building PRESENTED BY: Nicholas Harvey	Smartphone Spectroscopy: Measuring Concentration of Ionic Compounds in Water LOCATION: First Year Chemistry Lab, Room 188, L1, Chemistry Building PRESENTED BY: Emily Rochette and Jake Rowan	BioBrain - a sustainable product to complement your VCE Chemistry teaching! LOCATION: Room 205, L2, Old Arts Building PRESENTED BY: Caroline Cotton
SESSION BLOCK B: 12:10am - 12:55pm Unit 1 and 2 SAC Tasks LOCATION: Kathleen Fitzpatrick Theatre, Arts West Building PRESENTED BY: Pat O'Shea	A future-oriented, hands-on chemical science practical inquiry - making sustainable concrete LOCATION: Room 156, L1, Arts West Building (North Wing) PRESENTED BY: Dr Seamus Delaney	A student designed investigation into sustainable water treatment solutions LOCATION: Room 453, L4, Arts West Building (North Wing) PRESENTED BY: Dr Adele Hudson and Dr Kshitija Dhuna	How to teach Key Science Skills and Practical Investigation LOCATION: Room 453, L4, Arts West Building (North Wing) PRESENTED BY: Louise Lennard and Jason Wallace	Beginning Teachers Toolbox of Tricks LOCATION: Room 205, L2, Old Arts Building PRESENTED BY: Nic Volkman	2023 SACs for Chemistry LOCATION: Forum Theatre, Room 153, L1, Arts West Building PRESENTED BY: Danielle McDonald and Veronica Hayes	Extracting essential oils from indigenous plants and using them for their medicinal properties LOCATION: First Year Chemistry Lab, Room 188, L1, Chemistry Building PRESENTED BY: Peter Ball and James Andersen	Teaching Units 1 & 2 VCE Chemistry LOCATION: William Macmahon Ball Theatre, Room 107, L1, Old Arts Building PRESENTED BY: Carolyn Drenen
Chief Assessors Update LOCATION: Kathleen Fitzpatrick Theatre, Arts West Building PRESENTED BY: Peter Skinner, Chief Assessor, Chemistry and Chris Dwyer, Victorian Curriculum and Assessment Authority (VCAA)							
SESSION BLOCK C: 2:00pm - 2:45pm A practical report template for the evaluation and analysis of primary data LOCATION: Kathleen Fitzpatrick Theatre, Arts West Building PRESENTED BY: Dr Adele Hudson and Sumiran Jyot	Sustainability connections between the Unit 2 VCE Sciences (Biology, Chemistry, Environmental Science): Sharing the fieldwork load LOCATION: First Year Chemistry Lab, Room 188, L1, Chemistry Building PRESENTED BY: Helen Silvester and Kate Adriaans	Inspire your students to study STEM at VCE LOCATION: Room 205, L2, Old Arts Building PRESENTED BY: Julia Clegghorn and Jarrod McKenna	Five minute book LOCATION: Room 156, L1, Arts West Building (North Wing) PRESENTED BY: Sue Neale	Increasing class-time by decreasing lecture time LOCATION: Room 453, L4, Arts West Building (North Wing) PRESENTED BY: Ms Cristy Herron	Developing engaging assessment tasks for Units 1 and 2 VCE Chemistry to build skills for Units 3 and 4 SAC tasks LOCATION: Forum Theatre, Room 153, L1, Arts West Building PRESENTED BY: Mrs Maria James	Smartphone Spectroscopy: Measuring Concentration of Ionic Compounds in Water LOCATION: First Year Chemistry Lab, Room 188, L1, Chemistry Building PRESENTED BY: Emily Rochette and Jake Rowan	How batteries are enabling our sustainable future LOCATION: William Macmahon Ball Theatre, Room 107, L1, Old Arts Building PRESENTED BY: Dr Rodney Thiele

