

RACI Chemical Education Symposium

Thursday June 26 - Friday June 27, 2025



Thursday, June 26	
9:00 – 9:15	Registration (401 Foyer)
9:15 – 10:30 Lecture Theatre 2	Welcome and Introduction – Elizabeth Yuriev and Dino Spagnoli
	Invited Speaker – Christopher Thompson (Monash) – Hybrid session Breaking the Chains: Why Assessment Security in Chemistry Education is Obsolete in the Age of Generative AI <i>Chair: Elizabeth Yuriev</i>
10:30 – 11:00	Morning Tea (Student Cafeteria)
11:00 – 12:15 Lecture Theatre 2	Theme 1: Laboratory Learning - Sponsored by Wiley (1) (Theme Leader: Dino Spagnoli)
	Title: 360-degree Virtual Lab Inductions and Lab Safety Games for Undergraduate Chemistry Laboratories (T1-1) <i>Presenter: Michelle Spencer (RMIT)</i>
	Title: Teaching drug library enrichment through virtual screening methods using a docking case study on tRNA-guanine transglycosylase inhibitors (T1-2) <i>Presenter: Will Parsons (Monash)</i>
	Title: Evaluating Observation Methods: A Comparative Study of Protocols and Recordings in Laboratory-Based Learning (T1-3) <i>Presenter: Yuqing Fang (USyd)</i>
12:15 – 1:30	Lunch (Student Cafeteria)
1:30 – 2:45 Lecture Theatre 2	Theme 2: Chemical Education Research (Theme Leader: Sara Kyne)
	Title: Exploring Problem-Solving Scaffolds in General Chemistry: A Systematic Review of Scaffolding Goals and Instructional Approaches (T2-1) <i>Presenter: Kim Vo (Monash)</i>
	Title: What Does Empathy Look Like to You? Investigating Undergraduate Chemistry Students' Perceptions of Empathy in Regard to Their Lived Experience at University (T2-2) <i>Presenter: Alan Chen (USyd/UNSW)</i>
	Title: Exploring Motivational Factors in Chemical Education: A Baseline Study Using the SPIRES Framework (T2-3) <i>Presenter: Pavani Halpelage, Dilusha Munasinghe (Deakin)</i>
2:45 – 3:15	Afternoon Tea (Student Cafeteria)
3:15 – 5:00 PPS	Theme 3: School Chemistry Education – Hybrid session (Theme Leader: Mick Moylan)
	Title: Australian and Global Perspectives on Teaching Chemistry through Practical Activities: Opportunities for Green and Sustainable Chemistry in High Schools (T3-1) <i>Presenter: Seamus Delaney (Deakin)</i>
	Title: Element Sets for Secondary Schools (T3-2) <i>Presenter: Stuart Batten (Monash)</i>
	Title: A Work in Progress: CEA's Professional Learning Program for "Out of Field" Teachers of Years 7-10 Chemistry (T3-3) <i>Presenter: Lisa Chiavaroli (Chemistry Education Association)</i>
	Title: Demonstrating Customisable Support for Out of Field Teachers through a Curriculum-aligned Practical Activity (T3-4) <i>Presenter: Seamus Delaney (Deakin)</i>
5:00 onwards	Networking and informal dinner

Friday June 27	
9:15 – 10:45 Lecture Theatre 2	Theme 4: Curriculum and assessment design (Theme Leader: Seamus Delaney)
	LearnSci Solutions to Curriculum and Assessment Challenges – Dino Spagnoli
	Title: Reimagining First Year Chemistry Course Design through Competency-based Assessment: A Pilot Study (T4-1) Presenter: Karin Schaffarczyk McHale (UNSW)
	Title: Application of command terms in VCAA Chemistry Assessments (T4-2) Presenter: Caitlin Ryan (John Monash Science School)
	Title: Productville – Contextualisation on Moodle to bridge Physical Chemistry concepts with real-world products to elevate student engagement (T4-3) Presenter: Matt Burton (Monash)
10:45 – 11:15	Morning Tea (Student Cafeteria)
11:15 – 12:30 Lecture Theatre 2	Theme 5: Generative AI and digital technologies (Theme Leader: Stephen George-Williams)
	Title: Integrating Generative AI in Chemistry Education: Enhancing Career-Ready Writing Skills in Pharmaceutical Science (T5-1) Presenter: Drew Knott (Monash)
	Title: Students' perceptions and acceptance of Artificial Intelligence (AI)-generated videos in chemistry tertiary education-A pilot study (T5-2) Presenter: Dino Spagnoli (UWA)
	Title: Amplifying student voice and teaching responsiveness: A mid-semester "Feedforward" faculty initiative in the Drug Formulation unit of the Master of Pharmaceutical Science (T5-3) Presenter: Yassmin Samak (Monash)
12:30 – 1:50	Lunch (including posters) (Student Cafeteria)
1:50 – 2:40	Theme 1: Laboratory Learning - Sponsored by Wiley (2) (Theme Leader: Christopher Thompson)
	Title: Creation of a Virtual Chemistry Laboratory Tour for undergraduate chemistry students (T1-4) Presenter: Sylvia Urban (RMIT)
	Title: Connecting Research and Practice through a Water Treatment Design Workshop for Future Engineers (T1-5) Presenter: Joanne Tanner (Monash)
2:40 – 3:10	Afternoon Tea (Student Cafeteria)
3:10 – 4:00 Lecture Theatre 2	Theme 6: Student Engagement and Experiences (Theme Leader: Angela Ziebell)
	Title: Innovative Strategies to Boost Engagement and Creativity in Organic Synthesis Courses (T6-1) Presenter: Joaquin Sanchis Martinez (Monash)
	Title: Navigating the Experiences of International Students in Chemistry Education: Perceptions and Challenges (T6-2) Presenter: Shahnaz Mansouri (Monash)
4:00 – 5:00	Wrap-up Panel and Closing