

ACSME 2019 Program – www.ACSME.edu.au
Abercrombie Building (H70) – The University of Sydney



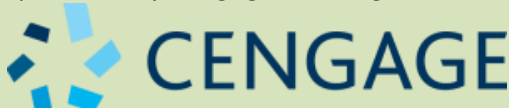
THE UNIVERSITY OF
SYDNEY



Australian Council
of Deans of Science

Day 1: Wednesday 2 October 2019			
8:00-9:00	Registration open		
9:10-9:30	Welcome: Professor Iain Young, Dean, Faculty of Science and Professor Pauline Ross, Conference Chair		
9:30- 10:00	Keynote 1: Student Presentation		
10:00- 10:30	Keynote 2: Professor Ian Hickie – Mental Health and Well-Being of our Students: An Emerging Issue for University Education		
10:30-11:15	Morning tea		
11.15-12.15	<table border="0" style="width: 100%;"> <tr> <td style="width: 50%; vertical-align: top;"> <p>Session 1: Theme 1</p> <p>13564: Digital literacy skills, student interactivity and academic performance in stem blended courses, UQ - Branda Le, Gloria Woods, Jack Wang, Gwendolyn Lawrie</p> <p>13615: Virtual reality for physics education, ANU - John Debs, Paul Wigley</p> <p>13558: Investigating the use of virtual reality in teaching chemistry to undergraduate students, USYD - Stephen Robert Daniel George-William</p> <p>13492: Avoiding the Science Stupidity Trap, Uni Newcastle - Bonnie McBain, Andrew Yardy, Frances Martin, Liam Phelan, Ian van Altenaa, Jill McKeowen, Claire Pemberton, Hollie Tose, Lindsey Fratus, Michael Bowyer</p> </td> <td style="width: 50%; vertical-align: top;"> <p>Session 2: Theme 2</p> <p>13613: Creativity in STEM: Students’ and employers’ perspectives, Curtin Uni - Alexandra Yeung, Jesse Mullen</p> <p>13541: How do you define creativity? A qualitative study of undergraduate chemistry students’ perspectives, Monash Uni - Jue Theng Soo, Stephen Michael Danczak, Alexandra Yeung, Christopher D Thompson</p> <p>13625: First steps in realising interdisciplinarity, creativity, empathy and global perspectives in stem curriculum, Curtin Uni, UWA - Reva Ramiah, Joanne Castelli</p> <p>13616: The effect of an interdisciplinary science course on student perceptions of computer programming, UQ - Adam Piggott, Sara Herke, Timothy McIntyre, Michael Bulmer</p> </td> </tr> </table>	<p>Session 1: Theme 1</p> <p>13564: Digital literacy skills, student interactivity and academic performance in stem blended courses, UQ - Branda Le, Gloria Woods, Jack Wang, Gwendolyn Lawrie</p> <p>13615: Virtual reality for physics education, ANU - John Debs, Paul Wigley</p> <p>13558: Investigating the use of virtual reality in teaching chemistry to undergraduate students, USYD - Stephen Robert Daniel George-William</p> <p>13492: Avoiding the Science Stupidity Trap, Uni Newcastle - Bonnie McBain, Andrew Yardy, Frances Martin, Liam Phelan, Ian van Altenaa, Jill McKeowen, Claire Pemberton, Hollie Tose, Lindsey Fratus, Michael Bowyer</p>	<p>Session 2: Theme 2</p> <p>13613: Creativity in STEM: Students’ and employers’ perspectives, Curtin Uni - Alexandra Yeung, Jesse Mullen</p> <p>13541: How do you define creativity? A qualitative study of undergraduate chemistry students’ perspectives, Monash Uni - Jue Theng Soo, Stephen Michael Danczak, Alexandra Yeung, Christopher D Thompson</p> <p>13625: First steps in realising interdisciplinarity, creativity, empathy and global perspectives in stem curriculum, Curtin Uni, UWA - Reva Ramiah, Joanne Castelli</p> <p>13616: The effect of an interdisciplinary science course on student perceptions of computer programming, UQ - Adam Piggott, Sara Herke, Timothy McIntyre, Michael Bulmer</p>
<p>Session 1: Theme 1</p> <p>13564: Digital literacy skills, student interactivity and academic performance in stem blended courses, UQ - Branda Le, Gloria Woods, Jack Wang, Gwendolyn Lawrie</p> <p>13615: Virtual reality for physics education, ANU - John Debs, Paul Wigley</p> <p>13558: Investigating the use of virtual reality in teaching chemistry to undergraduate students, USYD - Stephen Robert Daniel George-William</p> <p>13492: Avoiding the Science Stupidity Trap, Uni Newcastle - Bonnie McBain, Andrew Yardy, Frances Martin, Liam Phelan, Ian van Altenaa, Jill McKeowen, Claire Pemberton, Hollie Tose, Lindsey Fratus, Michael Bowyer</p>	<p>Session 2: Theme 2</p> <p>13613: Creativity in STEM: Students’ and employers’ perspectives, Curtin Uni - Alexandra Yeung, Jesse Mullen</p> <p>13541: How do you define creativity? A qualitative study of undergraduate chemistry students’ perspectives, Monash Uni - Jue Theng Soo, Stephen Michael Danczak, Alexandra Yeung, Christopher D Thompson</p> <p>13625: First steps in realising interdisciplinarity, creativity, empathy and global perspectives in stem curriculum, Curtin Uni, UWA - Reva Ramiah, Joanne Castelli</p> <p>13616: The effect of an interdisciplinary science course on student perceptions of computer programming, UQ - Adam Piggott, Sara Herke, Timothy McIntyre, Michael Bulmer</p>		
12:15-1:30	Lunch		

Follow #ACSME on Twitter and Facebook - www.facebook.com/ACSMEconference

1.30-2:00	Keynote 3: Professor Pip Pattison – Reshaping the Student Experience at the University Of Sydney		
2.00-2:300	Keynote 4: Dr Amanda C. Niehaus – Empathy in the Science Curriculum		
2.30- 3.30	<p>Session 3: Theme 1 (continued)</p> <p>13510: Student perceptions of effective feedback in psychology, ACU - Helen Aucote, Madeleine Ferrari, Kimberley Mallan</p> <p>13786: Prior learning factors impacting success in first year general chemistry, Deakin Uni - Anna Miltiadousa, Deepa Ram, Kieran Fergus Lim, Damien L. Callahan, Madeleine Schultz</p> <p>13486: Exploring opportunities to integrate systems thinking into chemistry education, Deakin Uni - Madeleine Schultz, Seamus Delaney, Joseph Ferguson, Jerry Lai</p> <p>13589: The “DEFT” Project, Uni Newcastle - Judy-anne Osborn, Joel Black, Naomi Borwein, Florian Breuer, Peter Ellerton, Jo-Ann Larkins, Malcolm Roberts</p>	<p>Session 4: Theme 2 (continued)</p> <p>13505: Cross-disciplinary mathematics support from the students’ perspective, LaTrobe - Deborah Cheryl Jackson</p> <p>13483: A degree for today’s scientists: demystifying the more-than-single disciplinary journey for students, Uni Newcastle - Michael Bowyer, Bonnie McBain, Liam Phelan, Mark Quinan, Hollie Tose, Andrew Yardy</p> <p>13461: Does working in academically diverse groups influence student perceptions? UQ - Montana Samantzis, Kay Colthorpe, Louise Ainscough, Judit Kibedi</p> <p>13617: A Walk in The Park? Engaging First Year Biology Students Through Autonomous Authentic Research Experiences and Partnerships with Industry, USYD - Matthew Pye, Francesca van den Berg, Sophie Golding</p>	<p>Session 5: Theme 3</p> <p>13529: Students’ experiences of Community Engagement, Rhodes Uni - Joyce Sewry</p> <p>13489: 8 Ways of Knowing: Embedding Yunkaporta’s Indigenous framework across the Faculty of Science, Uni Newcastle - Hollie Susan Tose, Mark Quinan</p> <p>13587: Using a rebuttal process to improve Ecology students’ feedback experience, Uni Otago, NZ - Krishneel Reddy</p> <p>13593: Extending the boundaries of non-Indigenous science to embrace the cultural curriculum by creating a living compendium of practice USYD - Rebecca Cross, Rosanne Quinnell, Jaime Gongora</p>
3:30-5:00	POSTER SESSION and afternoon tea - Abercrombie Building, University of Sydney		
5.30-7:30	<p>Welcome drinks and networking - Nicholson Museum, University of Sydney Sponsored by Cengage Learning Australia</p> 		

With thanks to our other sponsors and partners



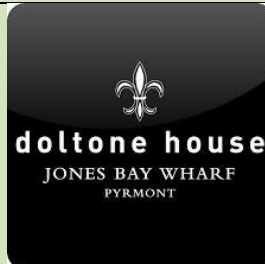
UNSW
SYDNEY

3M Science.
Applied to Life.™

 Learning
Science

Day 2: Thursday 3 October 2019

8:00-9:00	Registration open		
9:00-9:40	Keynote 5: Professor Philippa Levy – Co-Creating the Student Learning Experience		
9:40- 10:10	Keynote 6: Professor Susan Howitt – Improving Learning Outcomes from Undergraduate Research		
10:10- 10:50	Morning tea		
10:50- 11:50	<p>Session 6: Theme 1 (continued)</p> <p>13467: Understanding the relevance of science in real life through group projects, UNSW - Nirmani Wijenayake</p> <p>13512: Quantitative assessments: encouraging surface learning in introductory physics? UNSW - Thomas Findlay Dixon, Christine Lindstrøm, Elizabeth Angstmann</p> <p>13572: Pedagogical behaviour in pre-service teachers drops with increasing content knowledge, UNSW, Cambridge U, U Alberta - Christine Lindstrom, Vinesh M Rajpaul, Megan C Enge</p> <p>13627: Weaving webs: Creating instructional interdependency in blended, active learning environments, UQ - Jeanette Stok, Gwendolyn Angela Lawrie</p>	<p>Session 7: Theme 4</p> <p>13480: Promoting team work in undergraduate research projects, Flinders Uni - Masha Smallhorn, Narelle Hunter</p> <p>13524: Investigating the impact of work integrated learning on science students' professional identity, Monash Uni - Daniel Peter Czech, Julia Choate, Jessica Jong, Maxine Bonham, Tracy McCaffrey</p> <p>13559: Skills reflection in the undergraduate science curriculum: what, why and how, Monash Uni - Michelle A Hill, Tina Overton, Chris Thompson</p> <p>13551: Writing in a 'popular science' style: a paradigm shift, UTS - Yvonne Davila, Neela Griffiths, Maurizio Labbate</p>	
11:50-12:30	Keynote 7: Professor Pauline Ross – Stories from the Front: Science Academics in a Changing Higher Education Landscape		
12:30- 1:30	Lunch and POSTERS continued		
1:30- 2:30	<p>Session 8: Theme 5</p> <p>13498: Distributed leadership to embed scholarship in stem teaching teams, UTAS - Tina Acuna, Jo-Anne Kelder</p> <p>13532: The invisible academics, Uni Newcastle - Karen Elizabeth Mate, Judith Weidenhofer, Josephine Smith, Zoe Yates, Suzanne Evans</p> <p>13608: Sessional staff training for improved student experience, Deakin Uni - Madeleine Schultz, Lisa Chiavaroli, Jillian Healy, Siva Krishnan, Kieran F Lim, Janine McBurnie, Tricia Wevill</p> <p>13469: Investigating the trajectories of academic staff who identify as DBER scholars, USYD - Reyne</p>	<p>Session 9: Theme 4 (continued)</p> <p>13477: Choose your own adventure: experiencing research through first-year group projects in data science, USYD - Diana Warren, Samantha Louise Clarke</p> <p>13523: Addressing discrepancies between assumed, expected and actual levels of mathematical competencies: a learning design model of networked partnerships, QUT - Iwona Czaplinski, Dann Mallet, Henk Huijser</p> <p>13631: Students' transition to university life: Learning, lectures and other activities in the first year, Victoria</p>	<p>Session 10: Theme 6</p> <p>13644: Thanks for the feedback: Multiple perspectives in group design processes, ANU - Chris A Browne</p> <p>13646: Evaluating different feedback approaches in a diploma level science report assessment, JCU - Carol Leza Conway, Kerry Aitken</p> <p>13645: Using learning reflection reports to foster metacognition and deeper learning in science students, Monash Uni - Jasmina Lazendic-Galloway, Juan Fischer, Kate</p> <p>13577: You can take a horse to water: reflections on the effectiveness of a</p>

	Pullen, MaryKay Orgill, Manju Sharma	Uni, Wellington - Suzanne Boniface, Amanda Gilbert 13574: Building scientific skills in First Year Biology Undergraduates, Uni Melbourne - Dawn Gleeson, Jennifer Fox, Lisa Godinho, Lyn O'Neill	teaching development program for research-focused staff, Macquarie Uni - Ian Paul Johnson, Lyn Collins
2:30- 3:00	Afternoon tea		
3:00- 4.15	<p>Session 11: Theme 6 (continued)</p> <p>13462: The stories of women in Australian undergraduate science degrees, Monash Uni - Camilla Rose Fisher, Christopher Thompson, Rowan Brookes</p> <p>13598: The path to science student leadership at UQ, UQ - Lydia Kavanagh, Susan Leonie Rowland, Eimear Vallely, Sarah Campbell, Aimee Clarke, Amanda Cooke, Melissa Fitzgerald, Jamie Jones, Talia Sellars</p> <p>13470: Measuring academic agency in university students, UQ - Izaak Rutenberg, Louise Ainscough, Kay Colthorpe</p> <p>13526: Perceptions and realities of factors affecting retention and success of first year students at the University of Adelaide, Uni Adelaide - Hilary Coleman, Natalie Williamson</p> <p>13600: Assessment literacy: Exploring institutional, teacher and student perspectives, Monash Uni - Nirma Anandi Samarawickrema, Ester Villvanathan, Osuri Manaatunga, Klaudia Budzyn, John McInerney, Swati Mujumdar, Maxine Bonham, Christopher Thompson, Elizabeth Davis</p>	<p>Session 12: Theme 6 (continued)</p> <p>13570: An online resource for evaluating teaching developed by a community of practice, UNSW - Rebecca LeBard, Adrienne Torda</p> <p>13553: Investigating Cognitive Overload in the Undergraduate Chemistry Laboratory Through the Lens of Decision-Making, Monash Uni - Nathan Sos, Chris Thompson, Angela Ziebell</p> <p>13472: Co-creating inclusive science curricula with students as partners, UTS - Lucy Mercer-Mapstone</p> <p>13591: A co-creation research project for determining study preferences and creating study resources, Uni Adelaide - Hannah Andrews, Angela Joy, Michelle Ruth Coulson</p> <p>13537: The science consultancy project-improving students perceived employability skills through a school placement unit, UWA - Dino Spagnoli, Megan Ellyard, Lauren Moorhouse, Samantha Andrews, Brendan J Waddell</p>	
4:15-4:30	ACSME 2020 announcement – closing remarks and thanks		
7.00PM-11.00PM	<p>ACSME 25TH ANNIVERSARY CONFERENCE DINNER</p> <p>THE LOFT, DOLTONE HOUSE, JONES BAY WHARF</p>		

Follow #ACSME on Twitter and Facebook - www.facebook.com/ACSMEconference

Day 3: Friday 4 October 2019

**Discipline Day meetings and workshops at
University of Technology, Sydney**

Building 6 (next to ABC Studios in Harris Street) and
Building 5 (next to Paddy's Market)

These buildings are an easy 5 minute walk apart
Lunch will be served in building 6

<https://maps.uts.edu.au/map.cfm> – room numbers TBA

Full details available soon at:

www.acds-tlcc.edu.au/events/acsme/discipline-day-program

