

2007 UniServe Science Symposium Program

Thursday, 27 September 2007

Start	Finish		
8:30	9:00	Registration	
9:00	9:15	Welcome: Alexandra Hugman	
9:15	10:15	Keynote Address A perspective on threshold concepts in Science and Engineering <i>Prof Erik Meyer</i>	
10:15	10:45	Morning tea – Carslaw Foyer Area	
		Carslaw Lecture Theatre Threshold Concepts	
10:45	11:05	Troublesome concepts in statistics: a student perspective on what they are and how to learn them <i>Michael Bulmer, Mia O'Brien and Sarah Price, University of Queensland, Australia</i>	
11:05	11:25	Are there educationally critical aspects in the concept of evolution? <i>Charlotte Taylor, University of Sydney & Chris Cope, La Trobe University,</i>	
11:25	11:55	Intervening to create conceptual change <i>Pauline M. Ross and Deidre A. Tronson, University of Western Sydney</i>	
11:55	12:15	The role of proof in mathematics teaching and the Plateau Principle <i>David Easdown, The University of Sydney</i>	
12:15	12:35	Summary of posters	
12:35	1:20	Lunch and Poster viewing, Carslaw Room 250 and Foyer area	
1:20	1:30	Pearson Award, Carslaw Lecture Theatre 173	
1:30	2:00	Pearson Paper Presentation The development of a model of teaching focused on engagement and retention in large first year science courses <i>Karen Burke da Silva, David Wood and Ian Menz, Flinders University</i>	
		Carslaw Lecture Theatre 173	Carslaw Room 251
2:00	2:25	Developing robust and coherent conceptions of chemistry: an integrated model <i>Justin Read, Adrian George, Anthony Masters and Michael King, The University of Sydney</i>	Medical Physics Kickstart: Designing a senior high school physics workshop <i>Christie Nelan, Philip Dooley and Manjula Sharma, The University of Sydney</i>
2:25	2:50	Ethics, issues and consequences: conceptual challenges in science education <i>Barbara van Leeuwen, Rod Lamberts, Paula Newitt and Sharyn Errington, The Australian National University</i>	Student performance in first-year physics: does high school matter? <i>Therese Au and Manjula Sharma, The University of Sydney</i>
2:50	3:15	Tackling misconceptions in introductory physics using multimedia presentations <i>Derek A. Muller and Manjula D. Sharma, The University of Sydney</i>	Meeting expectations – A focus on professional practice in a final year undergraduate mathematics course <i>Layna Groen, University of Technology, Sydney</i>
3:15	3:35	Afternoon Tea	

		Carslaw Lecture Theatre 173 Alternative Strategies	Carslaw Room 251 Skills
3:35	4:00	Using short podcasts to reinforce lectures <i>Steve Clark, Lucy Taylor and Mark Westcott, The University of Sydney</i>	Designing and mapping a generic attributes curriculum for science undergraduate students: a faculty-wide collaborative project <i>Susan M. Jones, Julian Dermoudy, Greg Hannan, Sally James, Jon Osborn, Brian Yates and Christine Evans, University of Tasmania</i>
4:00	4:25	An Evaluation of Portfolio Assessment in an Undergraduate Web Technology Unit <i>Steve Cassidy and Rolf Schwitter, Macquarie University</i>	One potato, two potato, three potato, four: the use of <i>Hot Potatoes</i> software in science language comprehension <i>Alice Richardson, Brett A. Lidbury, and Felicia Zhang, University of Canberra</i>
4:25	4:50	Still pictures, animations or interactivity – What is more effective for e-learning? <i>Alexandra Yeung, Siegbert Schmid, and Adrian George, Michael King, The University of Sydney</i>	Using intervention strategies to engage tertiary biology students in their development of numeric skills. <i>Rosanne Quinnell and Eunice Wong, The University of Sydney</i>

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Friday, 28 September 2007

Start	Finish		
		Carslaw Lecture Theatre 173	Carslaw Room 251
		First Year Experience Special Interest Group Chair: Mary Peat	Gifted and Talented Special Interest Group Chair: Deidre Tronson
9:15	10:35	Group work: horses for courses in 1st year biology <i>Gary Ellem, University of Newcastle</i>	Stimulating our Talented: The Bachelor of Philosophy (Honours) program <i>Paula Newitt, The Australian National University</i>
		Moving towards constructive alignment in First Year Biology <i>Fiona L. Bird, La Trobe University</i>	The Advanced Study Program in Science: challenging, motivating and inspiring our best science students. <i>Joanne Blanchfield, Elizabeth McGraw, Michael Bulmer, Ricarda Thier, Helen Byers, Paula Myatt, Susan Hamilton and Robyn Evans, University of Queensland</i>
		Educating first-year students about the benefits of conservation partnerships: an experiential approach <i>William Gladstone, University of Newcastle</i>	Research-led education: challenges and experiences <i>Anna N. Wilson, Susan M Howitt, and Kate F. Wilson, Australian National University</i>
		Authentic-based learning: linking theory to real-life experience by instructional design to promote effective learning <i>Valda Miller, University of Queensland</i>	Anthony Masters, The University of Sydney
			Double or nothing! Clever thinking, double-degree frustration, and returns to Science. <i>Sandra J Welsman, Frontiers Insight</i>
10:35	11:00	Morning Tea	
11:00	12:30	Discussion time	Discussion time
12:30	1:30	Lunch	
1:30	2:00	Carrick Keynote Towards a framework of teaching and learning indicators in Australian universities <i>Denise Chalmers</i>	
		Carslaw Lecture Theatre 173	Carslaw Room 251
2:00	2:25	An articulated approach to the development and evaluation of automated feedback for online MCQ quizzes in Human Biology <i>Jan Meyer, Sue Fyfe, Georgina Fyfe, Mel Ziman, Kayty Plastow Kathy Sanders and Julie Hill, various Western Australian universities</i>	Teaching physics to non-physics majors: models extant in Australian universities <i>Les Kirkup, University of Technology Sydney, Dale Scott and Manjula Sharma, The University of Sydney</i>
2:30	2:55	Creating a national online resource for enhancing assessment practices in the biological sciences <i>Charlotte Taylor, Mary Peat, Dawn Gleeson, Kerri-Lee Krause, Kerri-Lee Harris and Robin Garnett, Universities of Sydney and Melbourne</i>	Evolution of an assessment project <i>Ian M. Sefton and Manjula D. Sharma, The University of Sydney</i>
2:55	3:15	Close and where to now?	

