

Thursday 2 October 2008			
		Eastern Avenue Auditorium	Eastern Avenue 116
8:30	9:00	Registration	
9:00	9:15	Welcome to country Welcome Professor David Day, Dean, Faculty of Science, The University of Sydney	
9:15	10:15	Keynote: Technologies and the representation of ideas <i>Professor John Hedberg, School of Education, Director of the Macquarie ICT Innovations Centre, Macquarie University</i> Chair: Alex Hugman	
10:15	10:45	Morning Tea	
		Visualisation for concept development Chair: Manju Sharma Eastern Avenue Auditorium	General papers Chair: Ian Johnston Eastern Avenue 116
10:45	11:10	Teaching Special Relativity using Virtual Reality <i>Craig Savage, Margaret Wegener, Timothy McIntyre, Dominic McGrath & Michael Williamson</i>	Activating Multiple Senses in Learning Statistics <i>Alice Richardson, Brett A. Lidbury and Felicia Zhang, University of Canberra.</i>
11:10	11:35	Empowering Physics Demonstrators to Enhance First Year Lab Experiences by Use of Real Time Visualisation – a Working DVD <i>Suzanne Hogg and Lakshmi Srinivasan, University of Technology, Sydney</i>	Further Developments with using the personalisation hypothesis in e-learning <i>Alexandra Yeung, Siegbert Schmid, Adrian George and Michael King, The University of Sydney</i>
11:35	12:00	Key Adding Value to Physics Education Technology Simulations <i>Robert J. Kruhlak, and Frédérique D. Vanholsbeeck & Colin Coghill, University of Auckland</i>	The Use Of Formative Assessment And Support Materials To Assist Students In Taking Control Of Their Own Online Learning. <i>Brightwell, R.F. and Buchannan, D., Edith Cowan University</i>
12:00	12:25	Threshold Concepts and Troublesome Knowledge in a Second-Level Mathematics Course <i>Susan Worsley and Michael Bulmer, Mia O'Brien, University of Queensland</i>	Are Science Students' Missing Classes for the Reasons we think? <i>Ian Menz, Karen Burke da Silva & Narelle Hunter, Flinders University of South Australia</i>
12:25	13:20	Poster summary session	
13:20	14:10	Lunch & Poster Viewing	
14:10	15:10	Keynote: The Challenge of Visualising Science: Some Research Findings <i>Assoc. Prof. Roy Tasker, School of Natural Sciences, University of Western Sydney</i> Chair: Sigg Schmid Eastern Avenue Auditorium	

		Chair: Rosanne Quinnell Eastern Avenue Auditorium	Chair: John O'Byrne Eastern Avenue 116
15:10	15:35	Inquiry Based Practicals: How Visually Stimulating Experiences Improve Performance and Engagement of Biology Students Karen Burke da Silva, <i>Narelle Hunter</i> and Jeanne Young, School of Biological Sciences, Flinders University of South Australia	ACELL for Physics? Kate Wilson, Dale Scott, David Mills, Alberto Mendez, Manjula Sharma and Les Kirkup, various universities
15:35	16:00	Afternoon Tea	
16:00	16:25	Seeing is understanding: the use of online Pre-lab. exercises to enhance learning in Zoology practicals Susan M. Jones, Ashley Edwards and Natalie Brown, University of Tasmania	Psychology Discipline Meeting Carslaw Building Room 535 Chair: Fiona White
16:25	16:50	Representation and Learning in Biology Pauline M Ross, College of Health and Science, University of Western Sydney	
16:50	17:15	Aligning CHEM 1405 to the needs of Veterinary Science Faculty Thien Le , Siegbert Schmid, Adrian V. George and Justin Read, School of Chemistry, The University of Sydney	
17:15	17:45	Special Event: Screening of Animated Movie: Flatland: A Journey of Many Dimensions Chair: Ian Johnston Eastern Avenue Auditorium	
18:30		Dinner: Royal Hotel, Butland Ave	

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9:00	10:00	Keynote: Agent-augmented Multi-user Virtual Environments and Computational Agent-based Models: Beyond Heat from a Burning Fire? Professor Michael Jacobson, School of Education and Social Work, The University of Sydney Chair: Alex Hugman	
		Visualisation for concept development Chair: Mary Peat Eastern Avenue Auditorium	First Year Experience Chair: Sue Jones Eastern Avenue 116
10:00	10:25	Developing a Discipline-based Measure of Visualisation Ken Sutton and Anthony Williams, Faculty of Science and Information Technology, The University of Newcastle	Language difficulties in first year Science – an interim report Felicia Zhang, University of Canberra
10:25	10:50	eBot: a collaborative learning object repository for Australian flora Rosanne Quinnell, Murray Henwood, Su Hanfling and Rowan Brownlee, The University of Sydney	The Psychology of University Student Learning and Performance: Using a constructive feedback approach to effectively reduce student plagiarism among first-year psychology students Fiona White, Caleb Owens, Melanie Nguyen, School of Psychology, The University of Sydney
10:50	11:10	Morning tea	
11:10	11:35	Can one version of online learning materials benefit all students? Alexandra Yeung and Siegbert Schmid, University of Sydney, Roy Tasker, School University of Western Sydney	Prelab activities to enhance the laboratory learning experience. G. A. O'Brien and M. Cameron, School of Chemistry, University of Wollongong
11:35	12:00	Build Your Own Virtual Photonics Communication System: A Photonics Simulator for High School Students Adam Strickland, Robert Williams, Nem Jovanovic, Ben Johnston and <i>Judith M. Dawes</i> , Macquarie	Critical reading and writing (CRW) in first-year psychology: Mass screening and targeted assistance Cranney, J., Jones, G., Morris, S., Starfield, S., Martire, K., Newell, B., & Wong, K. The University of New South Wales
12:00	12:20	GIFTED AND TALENTED Chair: Theresa Winchester-Seeto Eastern Avenue Auditorium Streamed project work: Letting everyone rise to the challenge Debbie Richards, Macquarie University	A pilot study on the impact of an online writing tool used by first year science students Lilje, O., Breen, V., Lewis, A. and Yalcin, A., School of Biological Sciences, University of Sydney
12:20	1:15	Lunch	

13:15	13:40	Pearson Presentation and Paper Chair: Alex Hugman Listing of Inherited Disorders in Animals (LIDA) for cats: an on-line relational database, using non-technical descriptions written by veterinary students Paul McGreevy, Sally Pope, Federico Costa, Peter Thomson, Tonya Stokes and Vanessa Barrs, Faculty of Veterinary Science, University of Sydney Eastern Avenue Auditorium	
		GENERAL PAPERS Chair: Judith Pollard Eastern Avenue Auditorium	Chair: TBA Eastern Avenue 116
13:40	14:05	Students' conceptual knowledge of mechanical waves across different backgrounds and cultures Apisit Tongchai, Manjula Sharma, Ian Johnston, Mahidol University, Thailand, The University of Sydney, Australia	FORUM DISCUSSION
14:05	14:30	Motivation: Using factor analysis to develop an instrument to measure physics goal orientations Christine Lindstrøm and Manjula D. Sharma, School of Physics, The University of Sydney	
14:30	14:55	Do students' experiences of a service subject correspond to their expectations Les Kirkup, Alberto Mendez, Manjula Sharma, John O'Byrne, Kate Wilson, Jamie Quinton, Dale Scott, various universities	
14:55	15:15	Close & Wrap-up	
15:15	16:00	Afternoon Tea and networking	