

Sunday 20 February:

- Arrival at Fairbridge Village throughout afternoon
- 4:30 Bus to Pinjarra departs from Ascot Quays Apartment Hotel (150 Great Eastern Highway, Ascot, WA 6104, 08 9479 0000)
- 6:30 Sun Downer Drinks, Dining Room
- 7:00 Dinner, Dining Room

Monday 21 February:

- 7:30 – 8:30 Breakfast, Dining Room
- 9:00 – 9:30 Welcome and introduction to the Symposium (Dan Churach, Stevan Green and Jim Avraamides), Barbara Rowley House
- 9:30 – 10:00 Introductions, Barbara Rowley House
- 10:00 – 10:30 Tea
- 10:30 – 12:30 *Management Systems: Risk, Safety and Swiss Cheese*; Barbara Rowley House. Presented by Simon Thompson, Simon Thompson Associates
- 12:30 – 1:30 Lunch, Dining Room
- 1:45 – 5:30 Tours to WMC Nickel Plant and TiWest Pigment Plant, Kwinana
- 6:30 Dinner, Dining Room
- 7:30 Sun Downer, Barbara Rowley House veranda

Tuesday 22 February:

- 7:30 – 8:30 Breakfast, Dining Room
- 9:00 – 10:30 Roundtable Discussion, Barbara Rowley House: “*So what’s life in the industry really like?*” Moderated by Lee Ranford (former Director General of the Department of Minerals and Energy); The panel includes Duncan Gibbs (AngloGold Ashanti), Greg Wardell-Johnson (Murdoch Gold Group), Siu Wan Chan (Rio Tinto), Evan Jamieson (Alcoa), Erica Smyth (Voice4u).
- 10:30 – 11:00 Tea
- 11:00 – 12:20 Session One Chair: Heather Evans, Parker Centre, Murdoch University
- Ryan Noble, Landscape Environments and Mineral Exploration, Curtin University of Technology: *Distribution of arsenic in regolith above buried gold mineralization N.W. Victoria: implications for exploration and environmental management*
 - Madgid Nikraz, Parker Centre, Murdoch University – Rockingham: *Advanced Integration of Operational Management Practices*

- Yinghui Liu, Coal in Sustainable Development, University of Newcastle: *Coal Minerals quantified by QEMSCAN and their impacts on coal combustion*
 - Fiesal Musa, Centre for Sustainable Resource Processing, University of Queensland: *A study on eco-efficient communiton in grinding devices*
- 12:20 – 1:30 Lunch, Dining Room
- 1:30 – 2:50 Session Two Chair: Karen Hulme, Landscape Environments and Mineral Exploration, University of Adelaide
- Murray Johnston, Centre for Sustainable Resource Processing, University of Western Australia: *A thermodynamic study of minor elements in molten metallurgical mattes, slags and alloys*
 - Claire Rogers, Greenhouse Gas Technologies, University of Adelaide: *In situ stress determination for fault reactivation related tseal breach with respect to carbon dioxide sequestration, Otway Australia*
 - Cherie van Wensveen, Parker Centre, Murdoch University: *Kinetics of the Oxidation of Thiosulfate in the presence of Copper and Ammonia for Gold Processing*
 - Joel Collard, Parker Centre, Western Australia School of Mines: *Separation and purification of dissolved metals using electrostatic pseudo liquid membrane (ESPLIM)*
- 2:50 – 3:15 Tea
- 3:15 – 4:35 Session Three Chair: Felicia Lee, Parker Centre, Curtin University of Technology
- Helen Fletcher, Parker Centre, Murdoch University: *The effects of several operating parameters on the performance of the eledctrowinning of copper*
 - Tania Dhu, Landscape Environments and Mineral Exploration, University of Adelaide: *How and why does the Earth's electrical response vary spatially – is there more information out there?*
 - Travis Woodward, Parker Centre, Murdoch University – Rockingham: *Operability assessment of an industrial leaching process*
 - Tim Ballantyne, Clean Power from Lignite, University of Adelaide: *Combustion of dewatered coal*
- 6:30 Dinner, Dining Room
- 7:30 Sun Downer, Barbara Rowley House veranda

Wednesday 23 February:

- 7:30 – 8:30 Breakfast, Dining Room
- 9:00 – 9:45 CRC Presentation, Barbara Rowley House ; AJ Parker Centre for Hydrometallurgy (Jim Avraamides)
- 9:45 – 10:30 CRC Presentation, Barbara Rowley House; Centre for Sustainable Resource Processing presentation (Stevan Green)
- 10:30 – 11:00 Tea

- 11:00 – 12:20 Session Four Chair: Alex Elliot, Coal in Sustainable Development, Curtin University of Technology
- Mahsa Ghaeli, Parker Centre, Murdoch University – Rockingham: *Modelling and Scheduling of Mixed Batch Continuous Plants Using Petri nets*
 - Tsuey Cham, Coal in Sustainable Development, University of New South Wales: *Coke and Iron Interactions in the Blast Furnace*
 - Andrew Parker, Parker Centre, Curtin University of Technology: *Surface analysis of chalcopyrite*
 - Mike Daniel, Centre for Sustainable Resource Processing, University of Queensland: *Energy efficient mineral liberation using high pressure grinding rolls*
- 12:20 – 1:30 Lunch, Dining Room
- 1:30 – 2:50 Session Five Chair: Tim Ballantyne, Clean Power from Lignite, University of Adelaide
- Heather Evans, Parker Centre, Murdoch University – Rockingham *Modelling and flowsheet design for nickel and cobalt solvent extraction*
 - Clinton Maitland, Centre for Sustainable Resource Processing, Curtin University of Technology: *Determining multiscale correlation functions from imaging and scattering data*
 - James Didovich, Parker Centre, Western Australia School of Mines: *The recovery of magnesium from hypersaline waters in the Eastern Goldfields by liquid-liquid extraction*
 - Frank Reith, Landscape Environments and Mineral Exploration, Australian National University: *Interactions of microorganisms with gold in Australian regolith*
- 2:50 – 3:15 Tea
- 3:15 – 5:00 Session Six Chair: Murray Johnston, Centre for Sustainable Resource Processing, University of Western Australia
- Abbas Razavimanesh, Parker Centre, Curtin University of Technology: *Process flowsheeting of a hybrid nickel leach circuit*
 - Karen Hulme, Landscape Environments and Mineral Exploration, University of Adelaide: *River red gum biogeochemistry: Towards an innovative new tool for mineral exploration programs in the Curnamona craton and adjacent regions*
 - Jennifer Lowe, Parker Centre, Curtin University of Technology: *Desilication product and its role within the Bayer process*
 - Kaia Little, Greenhouse Gas Technologies, University of Adelaide: *A geological model for CO₂ storage within onshore Otway Basin*
 - Felicia Lee, Parker Centre, Curtin University of Technology: *Interfacial surface chemistry of the Bayer Process*
- 6:30 Dinner, Dining Room
- 7:30 Postgraduate-Industry-CRC Quiz Night, Sun Downer, Barbara Rowley House

Thursday 24 February:

- 7:30 – 8:30 Breakfast, Dining Room
- 9:00 – 10:20 Session Seven Chair: Mike Daniel, Centre for Sustainable Resource Processing, University of Queensland
- Alex Elliot, Coal in Sustainable Development, Curtin University of Technology: *An investigation into the hydrothermal processing of coal fly ash to produce zeolite for controlled release fertiliser applications*
 - Leonardo Estevez, Parker Centre, Murdoch University – Rockingham: *Development of process control strategies for industrial thickeners*
 - Venny Tjandrawan, Parker Centre, Murdoch University: *The Effect of Silver on Loading of Gold onto Activated Carbon*
 - Marco Hilden, Centre for Sustainable Resource Processing, University of Queensland: *Modelling and Scale-up of Industrial Screens*
- 10:20 – 11:45 Tea
- 11:45 – 12:30 *Communicating Across the Interface*, Barbara Rowley House. Presented by Janine Lay, Senior Analyst Technology Office of the Chief Technologist, Rio Tinto Limited
- 12:30 – 1:30 Lunch, Dining Room
- 1:30 – 3:00 Roundtable Discussion, Barbara Rowley House: *“I’ve got my degree – now what do I do?”* Moderated by Richard Hazlewood (Executive Search Pty Ltd). The panel includes Aleks Nikoloski (Murdoch University), Ray Shaw (Rio Tinto), Kelly Dwyer (CSRP CRC), Narelle MacFarlane (Alcoa), Andrea Maxey (AngloGold Ashanti)
- 3:00 Free time
- 6:30 Symposium Barbecue and paper awards, Barbara Rowley House veranda

Friday 25 February:

- 7:30 – 8:30 Breakfast, Dining Room
- 9:00 Check out and bus departure for HiSmelt tour at Kwinana
- 10:00 – 11:00 HiSmelt Technology (Past and Future), Viewing Platform; Michael Buckley (Manager Marketing)
- 11:00 – 12:00 Sustainable Development in the Mining Industry (Australia compared to the world); Stephan Weber (General Manager)
- 12:00 – 1:00 Working Lunch, HiSmelt's Sustainable Development Initiatives, Open Discussion; Wheldon Nicholson, Colin Prickett (HS&E)
- 1:00 Transport to Perth Airport and Perth CBD