



PARKER CENTRE

SUMMER STUDENTS PRESENTATION DAY 2005

Friday 4 February 2005

Loneragan Lecture Theatre; Parker Centre (Murdoch University Campus)

- 9:30 Registration
- 9:45 Welcome by Jim Avraamides, Deputy CEO Parker Centre and Dan Churach, Parker Centre Education Program Manager
- 10:00 **SESSION ONE – Chair Bill Richmond, Curtin University of Technology**
Anna Marie Peterson (Supervisor David Ralph); *Bugs and their role in extractive metallurgy*
Misty-Lee Palmer (Supervisor Julian Johnson); *Phenotypic and bioleaching characteristics of WA mining microbes*
Adrian Ho Kah Wye (Supervisor Julian Johnson); *Bioleaching and chalcopyrite by mining microbes*
- 11:00 Tea – Science and Computing common room
- 11:30 **SESSION TWO – Chair, Julian Johnson, CSIRO Minerals Waterford**
Robert Clegg (Supervisor Gamini Senanayake); *Leaching of zinc, manganese and iron from spent zinc-carbon batteries using sulfur dioxide in acidic conditions*
Yoko Pranolo (Supervisor Chu Yong Cheng); *The recovery of cobalt and lithium from spent battery leach solutions by solvent extraction*
Eric Lukman (Supervisor Nicholas Welham); *Leaching of ferrous minerals with organic acids*
1st Prize Danielle Thompson (Supervisor Aleks Nikoloski); *The effect of ultrasound on the dissolution of iron in an ammoniacal carbonate solution*
- 12:30 Lunch – Science and Computing common room
- 1:30 **SESSION THREE – Chair, David Ralph, Murdoch University**
2nd Prize Theresa Janse van Rensburg (Supervisor Dean Ilievski); *Seed preparation for crystallisation experimentation*
Nikunj Shah (Supervisor Professor Gordon Parkinson); *In-situ STM characterisation of the adsorption of metal complexes onto solid surfaces*
Nadia Barnes (Supervisor Bill Richmond); *The effects of mixing on ferrihydrite formation*
Paul Phatarra-Atikom, (Supervisor Iztok Livk); *Instrumentation and control of a tall column for thickener experimentation*
- 2:15 Break
- 2:30 **SESSION FOUR – Chair Jim Avraamides, Parker Centre**
Jonathan Childs (Supervisor David Ralph); *Regeneration of a vanadium catalyst used in the petrochemical industry*
2nd Prize Phillip Dundas (Supervisor Ron Pleysier); *Carbon activity and rate constants*
Nay Zin Tun (Supervisors Nimal Subasinghe and Aleks Nikoloski); *Application of flotation for the recovery of fine grained carbon*
2nd Prize Kelechi Anyaegbu (Supervisor Frederick Bennett); *Re-design of the XPlot software*
- 3:30 Mark Woffenden – Interactive session: Summer Job Program review and feedback
- 3:45 Beer, Wine and Cheese Social