



Centre for  
Sustainable  
Resource  
Processing

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Science Happenings for  
WA School Teachers



**MURDOCH**  
**UNIVERSITY**  
PERTH, WESTERN AUSTRALIA

**ALL WA SCIENCE AND MATHEMATICS TEACHERS ARE INVITED TO REGISTER**

**The Chemistry and Physics of Extractive Metallurgy – An Intensive One-Day Professional Development Course for Science Teachers**

**An Introductory PD Short-Course will allow you to:**

- Broaden your understanding of the chemistry and physics of extractive metallurgy
- Acquire a variety of resources to use in your classroom
- Undertake 3 laboratory experiments relevant to school chemistry and physics
- Electroplate gold from cyanide solution
- Experience the explosive reactivity of aluminium
- Work with molten metals at greater than 1000°C
- Learn of career opportunities for your students in minerals and metallurgy
- Discuss how extractive metallurgy fits into the TEE syllabus and the WA Curriculum Guidelines
- Network with academic and industry representatives
- Receive a professional development certificate of completion for this one-day session

**Two dates in 2006: FRIDAY 28 APRIL  
and FRIDAY 21 JULY**

**A September date will be arranged if needed**

**Online Interactive  
Learning Objects**

Nola Shoring from the Minerals Council of Australia will visit Perth to present a Workshop introducing new online Learning Objects teachers can use in their classrooms. The latest software complements the other interactive programs developed by the MCA that she will make available to all participating teachers. In addition to the online work, there will be practical laboratories to complement the computer work.

**To be arranged in July 2006**

**Other one-day excursions are planned for teachers to visit mining and processing plants as well as research facilities. Those of you on the e-mail list will be informed when dates are organised. Proposed tours are:**

**Alcoa Huntly Mine**

**CSRP-Curtin Geopolymer Project**

**Kwinana Industries Tour**

**ADVANCED METALLURGY PD**

This advanced course is offered for teachers who have completed the basic *Chemistry and Physics of Extractive Metallurgy* course. It includes more focused hands-on practicals that build on the previous PD course and promises participating teachers a “mineral-to-metal” in a day experience.

**Thursday 27 April and Thursday 20 July 2006**

**A September date will be arranged if needed**

**STAY INFORMED – ADD YOUR NAME TO OUR MAILING LIST:**

Dr Dan Churach at 6436 8735 or e-mail [Dan.Churach@csrp.com.au](mailto:Dan.Churach@csrp.com.au) or  
Visit our websites: [www.csrp.com.au](http://www.csrp.com.au) and [www.scieng.murdoch.edu.au/mineral/](http://www.scieng.murdoch.edu.au/mineral/)

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