



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 PARTICIPATE

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

This introductory 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 WA Curriculum
- Network with academic and industry representatives
- Receive a professional development certificate of completion

Two dates in 2007:

Friday 20 July
Tuesday 2 October

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 19 July and
Wednesday 3 October 2007

Sustainable mineral processing as a way of life – Practices and processes in industry

Several 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

- Kwinana Industries Tour
- Alcoa Huntly Mine
- CSRP-Curtin Geopolymer Project

Minerals for Fun and Profit

This workshop introduces the very wide array of minerals which are used in everyday life, either directly as, for example, a filler in paper or indirectly as the source of metals. The workshop will include:

- Basic analysis, identification and categorisation of minerals
- Overview of minerals properties
- Adding wealth: Minerals as related to mining and extractive metallurgy
- Each participant will receive a comprehensive minerals booklet

July 2007 (to be confirmed)

COMMUNITY LECTURES and REGIONAL TEACHER PDs

We are happy to present community and student lectures about extractive metallurgy and mineral processing for school clusters in regional areas. As an example, a lecture “Aluminium through the Looking Glass – History, Production, Properties and Uses” and an after school teacher PD will be presented in Busselton / Bunbury in March 2007 (dates TBC). If you are interested in taking advantage of this resource, please contact Dan Churach at CSRP.

STAY INFORMED – ADD YOUR NAME TO OUR MAILING LIST:

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

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