Professional Development Courses 2010
Hydrometallurgy
Supporting our industry
Enhancing your career

Extractive Metallurgy, Murdoch University
Fundamentals of Hydrometallurgy
April 7-9

Course Program

Day 1
9:00 Introduction to hydrometallurgy
10:30 Morning coffee
10:45 Ions in solution
12:30 Lunch
1:30 Thermodynamics of solutions
3:00 Afternoon tea
3:15 Practical exercises

Day 2
9:00 Redox equilibria
10:30 Morning coffee
10:45 Eh/pH diagrams I
12:30 Lunch
1:30 Eh/pH diagrams II
3:00 Afternoon tea
3:15 Practical exercises

Day 3
9:00 Heterogeneous kinetics
10:30 Morning coffee
10:45 Electrochemical kinetics
12:30 Lunch
1:30 Mass transport
3:00 Afternoon tea
3:15 Practical exercises

COST - $1800 + GST
Registration by 15 March

The cost includes a comprehensive set of course notes and teas/lunches.

Delegates are urged to participate in this course before undertaking any of the subsequent courses.

Contact us for discounts on multiple attendees or courses

For further information about mineral processing and other courses and enrolment at Murdoch University, please visit our website
http://www.cms.murdoch.edu.au/areas/extrmet/PDCourses/

For details of the courses contact Mike Nicol
nicol@murdoch.edu.au ☎ (08) 9360 6766
Principles and Practice of Leaching
April 12,13

Course Program

Day 1
9:00  Chemical principles of leaching
10:30 Morning coffee  COST: $1500 + GST
10:45 Thermodynamics of leaching
12:30 Lunch  Registration by 15 March
1:30 Leaching kinetics I
3:00 Afternoon tea  The cost includes a comprehensive set of course notes and teas/lunches
3:15 Practical exercises

Day 2
9:00 Leaching kinetics II  Prior participation in the Fundamentals of Hydrometallurgy Course will assist in deriving maximum benefit from this course.
10:30 Morning coffee
10:45 Leaching of metals
12:30 Lunch
1:30 Leaching of oxides
2:15 Leaching of sulfides
3:00 Afternoon tea
3:15 Practical exercises

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Separation Processes in Hydrometallurgy
May 10, 11

Course Program

Day 1
9:00 Chemical principles
10:30 Morning coffee
10:45 Precipitation / crystallisation
12:30 Lunch
1:30 Solvent extraction I
3:00 Afternoon tea
3:15 Practical exercises

Day 2
9:00 Solvent extraction II
10:30 Morning coffee
10:45 Adsorption processes
12:30 Lunch
1:30 Ion exchange
3:00 Afternoon tea
3:15 Practical exercises

COST: $1500 + GST
Registration by 15 April
The cost includes a comprehensive set of course notes and teas/lunches
Prior participation in the Fundamentals of Hydrometallurgy Course will assist in deriving maximum benefit from this course.

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Metal Reduction Processes
May 13, 14

Course Program

Day 1
9:00 Thermodynamics of reduction
10:30 Morning coffee
10:45 Cementation
12:30 Lunch
1:30 Pressure reduction
3:00 Afternoon tea
3:15 Practical exercises

COST: $1500 + GST
Registration by 15 April

Day 2
9:00 Principles of electrowinning
10:30 Morning coffee
10:45 Electrowinning practice
12:30 Lunch
1:30 Electrowinning practice
3:00 Afternoon tea
3:15 Practical exercises

The cost includes a comprehensive set of course notes and teas/lunches

Contact us for discounts on multiple attendees or courses

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REGISTRATION FORM

Please copy this form if you wish to send more delegates to any course. If you register three or more delegates to any course, or plan to attend three or more courses please contact us to discuss discounts. We also run courses on-site, please contact us for details.

I wish to register for the following short course(s):

Fundamentals of Hydrometallurgy ....... Apr 7-9 ...............$1980 [ ]
Principles and Practice of Leaching ...... Apr 12-13 ............$1650 [ ]
Separation Processes ....................... May 10-11 .......... $1650 [ ]
Metal Reduction Processes ............ May 13-14 .............$1650 [ ]

TOTAL $ 

THESE FEES INCLUDE GST

Parker Centre for Integrated Hydrometallurgy Solutions ABN: 27 437 324 492.

Name:...........................................................................................................

Company:......................................................................................................

Address:........................................................................................................

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Phone:........................................Fax:......................................................

Email:...........................................................................................................

Please debit my Bankcard Mastercard Visa for the amount of $ (AMEX cards are not accepted)

Card No:

Expiry date:

Cardholder Name:

Signature

If you would prefer to be invoiced please complete the form and add any details necessary for invoicing such as purchase order number or financial officer.

Please return the completed form to: Lian Chan, School of Chemical and Mathematical Sciences, Murdoch University, South Street, Murdoch, WA 6150. Email L.Chan@murdoch.edu.au Fax: 08 9360 6332 Tel: (08) 9360-2384