

PATERSON & COOKE PRESENTS:

# Slurry Dewatering and Thickener Operation

06-07 JUNE 2012

HELD AT: THE CASTLE KYALAMI, 66 PINE ROAD, KYALAMI, GAUTENG



## Course Introduction

Slurry dewatering is an essential process in almost all metallurgical plants and thickeners are widely used to accomplish this step in many applications including concentrate; leach and tailings circuits.

However, thickener operation is often problematic which can lead to considerable downstream operational and cost implications for the plant.

Successful design and operation of the thickening circuit is dependant on a sound understanding of slurry colloidal behaviour, slurry sedimentation characteristics and thickener operation. Our course addresses these aspects and provides the delegate with a working knowledge of slurry dewatering and thickening.



## Objectives

The aim of the course is to introduce delegates to the fundamental concepts of slurry behaviour, coagulation, flocculation and thickening and to apply these concepts to the selection and operation of thickening units.

## Content & Program

The intensive two day course will consist of eight lecture sessions, one laboratory demonstration session and a project discussion workshop. Each participant is issued with a copy of the lecture presentations and other reference materials.

## Presenters

The course is presented by Andrew Vietti and Fredré Dunn of Paterson & Cooke. Andrew Vietti and Fredré Dunn have over 21 years and 14 years respectively of metallurgical experience and both have been involved in the research and development of paste and thickened tailings disposal systems within the De Beers Group. They have worked on paste thickening projects across various mineral industries in Africa; North and South America.

## CPD Credits

The course is accredited for two ECSA Continuing Professional Development (CPD) credits by the South African Institute of Mining and Metallurgy (SAIMM).



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## Who Should Attend

The course is aimed at all professionals involved in water recovery in the mining, chemical, industrial and engineering fields. These include:

- Chemical and mineral processing engineers
- Consulting and design engineers
- Project and production metallurgists

## Dates & Venue

The course will be held from Wednesday 06 June to Thursday 07 June 2012 at the The Castle Kyalami, 66 Pine Road, Kyalami, Gauteng. *Please book as early as possible as numbers are limited.*

## Fees & Registration

The registration fee for this course is R7 560 per person excluding VAT if received before 02 April 2012. The registration fee is R8 400 per person excluding VAT after that date. A cancellation fee of R2 100 per person excluding VAT will be charged for written cancellations received before 04 May 2012. No fees will be refunded for cancellations after this date. The course registration form is available at [www.PatersonCooke.com](http://www.PatersonCooke.com) or from [marihans@patersoncooke.com](mailto:marihans@patersoncooke.com) Confirmation of registration will be sent on receipt of the completed form and registration fee payment.

*Paterson & Cooke reserves the right to cancel the course and return registration fees if enrollment is insufficient. Personnel substitutions may be made at any time without penalty.*

## Accommodation

Delegates are responsible for their own accommodation. A list of suggested hotels is available on request.

## Contact

If you have any queries, please contact Marihan Salim at: 011 466 8295, fax: 011 466 8296 or email: [marihans@patersoncooke.com](mailto:marihans@patersoncooke.com)

## Course Program

Session	Wednesday 06 June 2012	Thursday 07 June 2012
08:00–08:30	Tea/Coffee	Tea/Coffee
08:30–10:00	Registration (until 09h00) Welcome and Introduction Introduction to Thickening and Tailings Disposal	Thickening Fundamentals Thickener Technology
10:00–10:30	Morning tea	Morning tea
10:30–12:00	Slurry Behaviour Coagulation and Flocculation	Thickener Operation and Water Recovery Case Study
12:00–13:00	Lunch	Lunch
13:00–15:00	(13h00: Bus departing from The Castle Parking Area to P&C Laboratory) Laboratory Demo	Pumping Paste and Thickened Tailings: an overview Project Discussion Workshop Course closure and review
15:00–16:00	Refreshments	Afternoon tea
16:00–16:30	(16h00: Bus departing from P&C Laboratory to The Castle)	



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