

PATERSON & COOKE PRESENTS:

Slurry Dewatering and Thickener Operation

08-09 JUNE 2011

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 from concentrate; counter current decantation (CCD) 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. Calculators are required for example calculations performed during the lecture sessions.

Presenters

The course is presented by Andrew Vietti and Fredré Dunn of Paterson & Cooke. Andrew Vietti and Fredré Dunn have over 20 years and 13 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).



PATERSON & COOKE

CAPE TOWN • JOHANNESBURG • SANTIAGO • DENVER • SUDBURY

PATERSON & COOKE PRESENTS:

Slurry Dewatering and Thickener Operation

08-09 JUNE 2011

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

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 8 June to Thursday 9 June 2011 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 R8 000 per person excluding VAT. Registrations with payments received before 04 April 2011 are entitled to a 10% discount. A cancellation fee of 25% will be charged for written cancellations received before 03 May 2011. No fees will be refunded for cancellations after this date.

The course registration form is available from 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

Course Program

Session	Wednesday 08 June 2011	Thursday 09 June 2011
08:00–08:30	Tea/Coffee	Tea/Coffee
08:30–10:00	Registration (until 09:00) Welcome and Course Introduction (20 min) Introduction to Thickening and Tailings Disposal - AV (40 min)	Thickening Fundamentals - FD (45 min) Thickener Technology - FD (45 min)
10:00–10:30	Morning tea	Morning tea
10:30–12:00	Slurry Behaviour - AV (45 min) Coagulation and Flocculation - FD (45 min)	Thickener Operation and Water Recovery - AV (45 min) Case Study - AV (45 min)
12:00–13:00	Lunch	Lunch
13:00–14:30	(Drive to P&C lab - start demo at 13h30) Laboratory Demo (60 min)	Pumping Paste and Thickened Tailings: an overview - AP (45 min) Project Discussion Workshop - AV/FD (45 min)
14:30–15:00	Afternoon tea	Afternoon tea
15:00–16:00	Laboratory Demo (60 min)	Course Review (15 min)



PATERSON & COOKE

CAPE TOWN • JOHANNESBURG • SANTIAGO • DENVER • SUDBURY