

PATERSON & COOKE PRESENTS: 15th ANNUAL FOUR DAY COURSE ON

The Design of Slurry Pipeline Systems

23-26 FEBRUARY 2010

THE BREAKWATER LODGE, VICTORIA & ALFRED WATERFRONT, CAPE TOWN, SOUTH AFRICA



Course Introduction

Slurry pipelines are widely used in industrial and mining operations. However, slurry pipeline systems are frequently characterised by operational problems and high running and maintenance costs. This is often due to inadequate design associated with a lack of understanding of the flow behaviour of two phase solid liquid mixtures.

The implementation of a reliable slurry pipeline system requires that all parties involved have a sound understanding of the underlying flow mechanisms of the slurries. Our course addresses this need and provides delegates with a working knowledge of slurry pipe flow theory.



Objectives

The aim of the course is to introduce delegates to the fundamental concepts of solid-liquid flows in pipelines and to apply these concepts to the design of slurry pipeline systems.

Content, Programme & Notes

The intensive four day course consists of twelve lecture sessions, three design sessions and slurry flow behaviour demonstrations. Scientific or engineering calculators are essential for the design sessions. The programme and course content are detailed overleaf. Each delegate is issued with a comprehensive set of reference notes covering the topics discussed.

Presenters

The course is presented by Dr Robert Cooke, Dr Angus Paterson, Mr Graeme Johnson and Mr Peter Goosen of Paterson & Cooke.

CPD Credits

The Slurry Pipeline Design Course is accredited for four ECSA Continuing Professional Development (CPD) credits by the South African Institute of Mining and Metallurgy (SAIMM).

Dates & Venue

The course will be held in February 2010 at the Graduate School of Business, The Breakwater Lodge, Victoria & Alfred Waterfront, Cape Town, South Africa. The course dates are: Tuesday 23 - Friday 26 February 2010. Please book as early as possible as numbers are limited. A second provisional course is planned from Tuesday 2 - Friday 5 March 2010 should there be sufficient demand.



PATERSON & COOKE

CAPE TOWN • JOHANNESBURG • SANTIAGO • DENVER

The Design of Slurry Pipeline Systems

23-26 FEBRUARY 2010

THE BREAKWATER LODGE, VICTORIA & ALFRED WATERFONT, CAPE TOWN, SOUTH AFRICA

Who Should Attend

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

- Mechanical Engineers
- Mineral Process Engineers
- Mine Engineers and Metallurgists
- Consulting Engineers
- Manufacturers and Suppliers.

Fees & Registration

The course fee is R 15 500 per person including V.A.T. Registrations with payments received before 25 November 2009 are entitled to a 10% discount. A cancellation fee of 25% will be charged for written cancellations received before 25 January 2010. No fees will be refunded for cancellations after this date. The [course registration form](#) is available on our web page at www.PatersonCooke.com. Confirmation of registration will be sent on receipt of the completed form and course fee payment.

Accommodation

Delegates are responsible for their own accommodation. A list of suggested hotels is available on request. It is advisable to book as early as possible.

Contact

If you have any queries, please contact Terry Carolin at: (021) 683 4734, fax: (021) 683 4168 or e-mail: TerryC@PatersonCooke.com

Course Programme

Session	Tuesday	Wednesday	Thursday	Friday
07:45 – 08:00	Tea / Coffee	Tea / Coffee	Tea / Coffee	Tea / Coffee
08:00 – 10:00	Registration (until 8:30) Course introduction Water pipeline hydraulics	Settling slurries	Rheology and non-Newtonian slurries	Mixed regime slurries Slurry system applications
10:00 – 10:30	Morning tea	Morning tea	Morning tea	Morning tea
10:30 – 12:00	Pump types Centrifugal pump characteristics	Slurry pipeline hydraulics	Rheology and non-Newtonian slurries	
12:00 – 13:00	Lunch	Lunch	Lunch	Course close
13:00 – 14:30	Introduction to slurry flow	Pump station design	Pipeline design	Rheology measurement review Case studies Closure
14:30 – 15:00	Afternoon tea	Afternoon tea	Afternoon tea	
15:00 – 17:00	<i>Design Session 1</i> Water pipeline system <i>Demonstration 1</i> Hydraulic grade line, settling slurries	<i>Design Session 2</i> Process balance and settling slurry system	<i>Design Session 3</i> Non-Newtonian slurry systems <i>Demonstration 2</i> Rheology measurement	
Evening	Free evening	Boat cruise	Free evening	



PATERSON & COOKE