

— A COMPREHENSIVE COURSE ON —

Slurry Pipeline Systems

November 1 - 4, 2011

Overview

Slurry pipeline transportation is a field that is not adequately covered in undergraduate engineering courses. Consequently, engineers are generally ill equipped when faced with the task of designing a slurry transportation system or troubleshooting an existing installation.

The Saskatchewan Research Council (SRC) and Paterson and Cooke (P&C) have joined forces to offer a comprehensive course in slurry pipeline design and operation. SRC has conducted hundreds of slurry pipeline R&D programs and developed a primarily mechanistic model describing the pipeline flow of settling slurries. P&C is an internationally recognized firm that has designed numerous slurry handling installations throughout the world.

The course focuses on applying the basic principles of slurry pipeline flows to actual design situations. This course will provide an excellent opportunity for people involved in slurry transportation to meet in an informal environment, to share experiences, and to foster a uniform technical language and approach for slurry flow analysis.

The course will run from 8:00 a.m. on November 1st until noon on November 4th. A casual reception will be held at the Hotel Senator on Tuesday, November 1, 2011, from 7:30 to 9:30 p.m.



Website: www.src.sk.ca



Website: www.patersoncooke.com

Who should attend:

All professionals involved in solids handling in the mining, chemical, industrial and engineering fields, who have not previously taken the SRC Slurry Pipelining Course. Previous courses have been attended by: process engineers, equipment reliability & maintenance engineers, mining engineers, metallurgists, consulting engineers and equipment suppliers.

Course objectives:

Participants will learn about the principles governing the pipe flow of slurries and will be able to apply appropriate scale-up methods for the design of fine-particle (homogeneous) and coarse-particle (settling) slurry pipelines. This course is designed to offer a comprehensive overview of the key considerations for, and unique challenges encountered in the design, implementation and operation of slurry pipeline systems.

Course content:

- ◆ Rheology: Newtonian and non-Newtonian slurries
- ◆ Friction losses for fine-particle (homogeneous) slurries
- ◆ Friction losses for coarse-particle (settling) slurries
- ◆ Minimum operating velocities
- ◆ Use of the SRC Two-Layer Model for slurry flow calculations
- ◆ Slurry pump performance and selection criteria
- ◆ Hydraulic design of slurry systems
- ◆ Class examples to illustrate key concepts
- ◆ Laboratory measurements and data analysis (conducted at the SRC Pipe Flow Technology Centre)

A calculator is required for the design sessions.

A laptop computer would be useful, but is not mandatory.

Safety footwear is required for visiting the SRC facility.

Instructors:

Dr. Robert Cooke

Paterson & Cooke ♦ Denver, CO, USA

Dr. Sean Sanders

University of Alberta ♦ Edmonton, AB

Dr. Ryan Spelay

SRC Pipe Flow Technology Centre ♦ Saskatoon, SK

Registration Fee

\$2,500 + applicable taxes

To Register:

Complete the attached registration form and fax (or e-mail a scanned copy) to Lori Chapman at 306-933-7446 (chapman@src.sk.ca)

Course registration fee includes:

- ◆ Demonstration software to assist with the design calculations
- ◆ Comprehensive course notes
- ◆ Copies of the course presentation material
- ◆ Hands-on laboratory data collection and analysis, conducted at the SRC Pipe Flow Technology Centre
- ◆ Lunch and Coffee/Tea Breaks
- ◆ Casual Reception on Tuesday, November 1, 2011

Accommodation:

Although there is no preferred hotel, a bus service will be provided from the following locations to transport attendees from the downtown area to the Willows Golf & Country Club:

- ◆ Delta Bessborough / Sheraton Cavalier Hotels
601 / 612 Spadina Crescent East
- ◆ Parktown Hotel
924 Spadina Crescent East

There are a number of hotels within walking distance of these two locations. Please note that there tends to be a shortage of hotel space in Saskatoon so early bookings are recommended.

For more information please contact:

Lori Chapman	Tel: 306-933-5551
Email: chapman@src.sk.ca	Fax: 306-933-7446
Leanne Crone	Tel: 306-933-7364
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Melissa McKibben	Tel: 306-933-5784
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SRC / P&C
**Slurry Pipeline
Systems Course**



November 1 - 4, 2011

Willows Golf & Country Club
Saskatoon, SK, Canada



Registration Fee \$2,500 + applicable taxes
(Hotel registration not included)

REGISTRATION FORM – Please print and complete

Name: _____

Company: _____

Address: _____

City and Province/State: _____

Postal Code: _____ Country (If not Canada): _____

Email: _____

Phone: _____ Fax: _____

PLEASE INDICATE METHOD OF PAYMENT

____ Invoice my company:

Contact Name: _____

Phone: _____ Fax: _____

Email: _____

____ Visa Account Number: _____

____ Mastercard Expiry Date: _____

Cardholder Name: _____

Sorry, we are unable to accept American Express.

Registration / Fee Payment Deadline is October 10, 2011

** A space in the course will be reserved for you upon receipt of the Registration Fee.

Fax or Email completed form to Lori Chapman
Fax: 306-933-7446 Email: chapman@src.sk.ca Tel: 306-933-5551