



A short course on the new *SRC Multi-Species Pipe Flow Model* Online, Live Feed via Skype for Business, June 20, 2018

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. For many years, the Saskatchewan Research Council (SRC) and Paterson & Cooke (P&C) have offered a comprehensive course in slurry pipeline design and operation, the Slurry Pipeline Systems Course. This comprehensive course instructs engineers on applying the basic principles of slurry pipeline flows to actual design situations. It also includes instruction on the SRC Pipe Flow Model for slurry flow calculations.

Recent research funded by members of the Canadian Oil Sands Industry, as well as Paterson & Cooke USA, Ltd., has led to the development of a new pipe flow model. This new model, the SRC Multi-Species Model (PipeFlow M1.0) provides pressure loss and deposition velocity predictions for slurries with broad particle size and density distributions, and represents a significant leap forward in slurry pipeline modelling techniques. This model is also capable of making predictions for the turbulent flow of settling slurries with yield stresses.



SRC has developed a one-day training course on this new model to familiarize users with its capabilities. The aforementioned comprehensive Slurry Pipeline Systems Course is a prerequisite to this training, as the one-day course will only provide a short refresher of that content prior to introducing the new model.

SRC is offering this one-day course for \$1,000 plus applicable taxes. The course time is tentatively scheduled for 8:30 a.m. to 5:00 p.m Mountain Standard Time, but may be adjusted to suit the time zone of the majority of course attendees.

Who should attend:

All professionals who are involved with solids handling in the mining and mineral processing industries and who have taken the SRC/P&C Slurry Pipeline Systems Course or an in-house SRC Slurry Pipeline course.

Course content:

- A refresher on:
 - Newtonian and non-Newtonian slurries
 - Friction losses
 - Minimum operating velocities
- Introduction of the SRC Multi-Species PipeFlow M1.0 Model for slurry flow calculations
- Examples to illustrate key concepts

A calculator is required for the design sessions.

A computer is required to run the SRC Pipe Flow Model software and participate in the course.

Skype for Business will be used to broadcast the course.

Instructors:

Dr. Sean Sanders

University of Alberta • Edmonton, AB

Dr. Ryan Spelay

SRC Pipe Flow Technology Centre™ • Saskatoon, Sask.

To Register:

Complete the attached registration form and fax (or email a copy) to Leanne Crone at 306-933-5383 or leanne.crone@src.sk.ca by May 31, 2018.

Registration Fee: \$1,000 + taxes

Course registration fee includes:

- Demonstration software to assist with design calculations
- Copies of the course presentation materials
- Access to software to assist with design calculations



For more information please contact:

Leanne Crone

Tel: 306-385-4107

Email: leanne.crone@src.sk.ca Fax: 306-933-5383

SRC Multi-Species Slurry Pipe Flow Model Course



June 20, 2018

Online
Live Feed via Skype for Business

Registration Fee: \$1,000 + applicable taxes

REGISTRATION FORM – Please print and complete

Name: _____
Company: _____
Job Title: _____
Address: _____
City and Province/State: _____
Postal Code: _____ Country (If not Canada): _____
Email: _____
Phone: _____ Fax: _____

PLEASE INDICATE METHOD OF PAYMENT (If required)

____ 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 May 31, 2018

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

Fax or Email completed form to Leanne Crone
Fax: 306-933-5383 Email: leanne.crone@src.sk.ca Tel: 306-385-4107