



# A short course on the SRC Multi-Species PipeFlow Model

Online, Live via Microsoft Teams  
Jan. 23, 2025 | 8 a.m. - 4 p.m. CST

## 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 PipeFlow Model for slurry flow calculations.

Research funded by members of the Canadian Oil Sands Industry, as well as Paterson & Cooke, led to the development of a new settling slurry pipe flow model. This model, the SRC Multi-Species Model

(PipeFlow M1.0), provides friction 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 the Multi-Species 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 \$1,100 plus applicable taxes. The course time is tentatively scheduled for 8:00 a.m. to 4:30 p.m. CST, 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:
  - SRC slurry classification system
  - Friction losses
  - Minimum operating velocities
- Introduction and training on the SRC Multi-Species PipeFlow M1.0 Model for slurry pipe flow calculations
- Examples and sample calculations to illustrate key concepts

**A calculator is required for the design sessions.**

**A computer is required to run the SRC PipeFlow Model software and participate in the course.**

**Microsoft Teams 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, SK

### To Register:

Complete the online registration form at <http://src.nu/multispecies25> by Jan. 17, 2025. Contact [pipeflow@src.sk.ca](mailto:pipeflow@src.sk.ca) or 306-514-7342 to arrange alternative payment.

### Registration Fee: \$1,100 + taxes

#### Course registration fee includes:

- Detailed user guide and access to the online SRC Multi-Species PipeFlow M1.0 Model to assist with class examples and design calculations
- Copies of the course presentation materials
- Completed solutions to the examples and sample calculations

### For more information please contact:

#### Shannon Klatt

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