



Canadian Operational Research Society
Calgary Section

<http://www.corscalgary.org/>

PROFESSIONAL DEVELOPMENT SEMINAR

When: Noon to 1:30 PM, Thursday, November 17, 2011

Room 214 **(Note room change!)**

TransCanada Tower
450 - 1 Street SW
(See attached map)

SPEAKER

Chandandeep Singh Grewal, University of Calgary

TOPIC

**Robustness Measurement of Supply Chain Replenishment
Strategies under Multiple Performance Measures**

Abstract:

Supply chain practitioners are becoming increasingly aware of the necessity of protecting against uncertainty. The degree of protection against the effects of variability and uncertainty is partially a function of the robustness of the replenishment strategy. Robustness relates to the sensitivity of performance to changes in the replenishment environment.

This talk will present robustness measurement of supply chain replenishment strategies when there are two interacting performance measures. This will discuss a new robustness measurement methodology based on trade-off curves. A proposed robustness index, based on area under the trade-off curves, is further used to evaluate the performance of Kanban and reorder point replenishment strategies. An optimum-seeking simulation approach is used to set base conditions prior to perturbing the environment. Changes in the replenishment environment include transit time variability, transporter frequency, demand levels and the duration of manufacturing disruptions.

About the Speaker:

Chandandeep is currently working as a Supply Chain Performance Analyst at SMART Technologies , Calgary. He is also currently finishing his PhD at the University of Calgary. He was also involved in different supply chain and quality management projects in India. He received his Master of Technology in Industrial Engineering from the Indian Institute of Technology, Delhi (India). His areas of interest are supply chain management, operations management, simulation modeling and lean systems. He is a member of the Institute of Industrial Engineers (*IIE*), the Canadian Operational Research Society (*CORS*), the Indian Society of Mechanical Engineers (*ISME*), and the Indian Society for Technical Education (*ISTE*).

There is no charge for attending the meeting. The room is available until 1:30 PM for those interested in staying afterwards to mingle and meet other OR practitioners.

Sketch of Location for CORS Meetings at TransCanada Tower in Conference Rooms 214 and 217.

