

# Flow Seminar - June 23, 2010

## Course Outline:

This free one day seminar will include discussions and presentations on the new Flow Measurement Technologies, the best practices in applying them and the advantages they offer.

Attendees will learn about:

- Sizing Flow Meters
- Advantages and Limitations
- Installation Guidelines
- Improve Measurement Accuracy
- Increase Process Availability
- Select the Correct Technology
- Advances in Diagnostics in Flow Measurement

## Who Should Attend?

Anyone working in the process industry that wishes to profit by adopting new business practices in specifying, applying or maintaining measurement instrumentation. Typical attendees include; Project Managers, Operations Managers, Maintenance Managers, Instrument Supervisors, Process Engineers and Instrument Engineers.



**Date:** June 23, 2010

**Time:** 8:00AM - 4:00PM

**Cost:** Free

**Location:** Lakeside Process Controls Ltd.  
5250 Orbitor Dr.  
Mississauga, On.,  
L4W 5G7



## Agenda:

### 8:00am Flow Fundamentals

This session is focused on fluid properties. Definition of Viscosity, Density, Standard Conditions and the basics of flow terminology.

### 9:15am DP Flow Best Practices

This session discusses the principal of DP Flow measurement and Best Practices for selecting primary elements and DP transmitters for your flow measurement. Advantages fully compensated Mass Measurement using latest Multivariable transmitters for liquid and gas measurement.

- Primary Elements - orifice plate, venturi, Annubar, new Compact and Conditioning, Orifice plates
- DP Transmitters latest evolution
- Multi-Variable Transmitters
- Selecting the Correct Primary Elements and Transmitters
- Quantify the "Total Performance Accuracy"

### 11:15am Vortex Technology

This session will discuss the theory of operation, and selection guidelines for new Mass Vortex and Reducer Vortex Technology.

### 12:00pm Lunch

### 1:00pm Magnetic Flow Meter Technology

This session will discuss the theory of operation, selection and installation guidelines for magnetic flow meters.

- New Diagnostics
- Meter Verification

### 2:00pm Micro Motion Coriolis

This session will discuss the theory of operation and the benefits of Micro Motion Coriolis meters for the following:

- Mass Flow, Density and Temperature
- Advances in Coriolis in Entrained Gas and Empty to Full to Empty Flow
- New 2-wire Transmitter
- Meter Verification
- Enhanced Density Capability
- Gas Measurement

Product Demonstrations will be available throughout the day.

Throughout the sessions, we will discuss diagnostics for each technology and utilize AMS Device Manager to demonstrate the information available.