

## *An introduction to gPROMS*

### **Course Programme**

#### **Day 1**

- 08:50** Course Registration
- 09:00** Introduction and course overview
- 09:15** Demo: Running gPROMS
- 09:30** Tutorial: Basic gPROMS
- 09:45** Hands-on session: Using gPROMS for the first time
- 10:00** Tutorial: Using arrays and built-in functions
- 10:15** Tutorial: Modelling systems with discontinuities
- 10:30** Break
- 10:45** Hands-on session: Modelling an adiabatic liquid phase CSTR
- 12:00** Tutorial: Constructing composite models
- 12:30** Lunch
- 13:30** Hands-on session: Modelling a cooled CSTR
- 14:30** Hands-on session: CSTR model decomposition
- 17:00** End of day 1

## **Day 2**

- 09:00** Tutorial: Public interface model development
- 09:30** Hands-on session: Making the Cooled CSTR compliant with the public interface
- 10:15** Hands-on session: Cooled CSTR train
- 10:30** Break
- 10:45** Tutorial: Simple operating procedures
- 11:00** Hands-on session: Operating a batch reactor
- 11:15** Tutorial: Organising operating procedures in TASKs
- 11:30** Hands-on session: Operating a batch reactor (cont.)
- 12:30** Lunch
- 13:30** Tutorial: Modelling of distributed systems
- 14:00** Hands-on session: Modelling and simulation of a tubular reactor
- 17:00** End of day 2

### **Day 3**

- 09:00** Tutorial: Physical properties in gPROMS
- 09:30** Hands-on session: Modelling of an open vessel
- 10:00** Break
- 10:15** Tutorial: Simple Foreign Objects and Foreign Processes
- 10:30** Hands on session: Excel FO and FP
- 11:30** Tutorial: Process Model Library
- 12:00** Hands-on session: Building a flowsheet with PML
- 12:30** Lunch
- 13:30** Tutorial: Software architecture and solution methods
- 14:00** Tutorial: Dealing with difficult problems in gPROMS
- 14:15** Tutorial: Steady-state modelling with gPROMS
- 14:30** Hands-on session: Steady-state tubular reactor
- 15:00** Tutorial: gPROMS documentation and support
- 15:10** Workshop session and demos
- 17:00** Closure