**Perceptive Engineering** are pleased to announce a second introductory training course on **process control for the pharmaceutical industry,** which is free to attend for members of the ADDoPT consortium.

**Day 1** will cover the core topics of why and how processes should be controlled, and an introduction to regulatory control techniques. **Day 2** will extend the scope into process system identification, and the fundamentals of model predictive control. **Presentation delivery** will be interspersed with regular hands-on software sessions, working with a variety of simulated processes. **Day 2 will include a tour of the CMAC laboratory and a demonstration of the PharmaMV pharmaceutical control systems in operation**

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|---|---|
| **Dates** | **Tuesday 1$^{st}$ - Wednesday 2$^{nd}$ November 2016** |
| **Venue** | Room 215 – Technology and Innovation Centre |
| | University of Strathclyde |
| | 99 George Street |
| | Glasgow |
| | G1 1RD |
| **Registration** | Reserve your place by email or phone to Matthew McEwan |
| | **mmcewan@PerceptiveAPC.com** / **01925 607150** |

**Topics and Timetable**

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|---|---|
| **Day 1** | **Coffee and Registration 08:45** |
| | Introduction to Control |
| | Elements of a Control System |
| | Process Dynamics |
| | Controller Operation and Tuning |
| | What Makes Control Difficult? |
| **Day 2** | Introduction to System Identification |
| | Introduction to Model Predictive Control |
| | **Demonstration of PharmaMV in action at CMAC** |

**Trainer Profile:  Dr Andy Clegg**
*Andy joined Industrial Systems and Control Ltd in 1996 as a consultant control engineer, during which time he has been responsible for providing consultancy, training and research in the field of control engineering, for many large international companies including Ford, BP, Shell, Rolls-Royce, EDF, BAE Systems across a very broad range of industrial sectors. Andrew was awarded a Ph.D. from Heriot-Watt University, and received BEng and MEng degrees in Electrical and Electronic Engineering from the University of Bradford.  Andy is now the Managing Director of ISC.*

**Trainer Profile:  Dr Matthew McEwan**
*Matthew is a Principal Engineer with Perceptive Engineering.  Matthew has been involved in the design and commissioning of advanced control, optimisation, and monitoring applications for over 15 years, on processes varying from copper smelters, paper machines, evaporator spray dryers, activated sludge processes, and most things in between.  Matthew is one of the founder employees of Perceptive Engineering.*
**Read about the first training course here:**
https://www.addopt.org/news/latest_news/process_control_training/