

ACTC Scheduled Training Process Control for Process & Chemical Engineers

CATCH Training Facility, Stallingborough

16th May 2007

Meeting Agenda

08.30	WELCOME / REGISTRATION
09.00	INTRODUCTION TO THE COURSE <ul style="list-style-type: none">➤ What is process control, Terminology, Why feedback is needed, Manual vs automatic feedback.➤ What makes feedback go wrong, Benefits of good control➤ Fundamental Trade-offs
09.30	ELEMENTS OF A CONTROL SYSTEM <ul style="list-style-type: none">➤ Sensors – their functionality and it effects control➤ Actuators - Valves and Motors➤ Control System Hardware and Communications➤ Control Function Blocks
10.45	TEA / COFFEE
11.05	PROCESS DYNAMICS <ul style="list-style-type: none">➤ Typical Process Dynamic responses, how obtained and how represented, nonlinearities, multivariable interactions and disturbances
12.15	LUNCH
13.00	WHAT MAKES CONTROL DIFFICULT <ul style="list-style-type: none">➤ Deadtime, Lag, Disturbances and Interactions➤ Inappropriate Controller Tuning, Integrating Process Dynamics➤ Saturation and Other Nonlinearities, Process Changes
14.15	TEA / COFFEE
14.30	CONTROLLER OPERATION AND STRATEGIES <ul style="list-style-type: none">➤ Basic control, PI and PID Control and their Configuration➤ Specific Process Control Strategies and Enhanced Process Control
15.45	CLOSE

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<http://www.actc-control.com/meetings/meet070516.html>