



ACTC Meeting

" Process Control for Process and Chemical Engineers"

16th May, CATCH Training Facility, Stallingborough

This meeting is **free of charge** to employees of ACTC member companies and speakers. Employees of companies that are not ACTC members will be required to pay a nominal fee to help defray costs (see Registration Form below for details). Members of the IET Control and Automation PN and IChemE Process Control and Management Subject Group are eligible for **discounted rates**, as are students/academics.

All delegates are required to register and can be made using the form below. Please ensure the payment details section of the form is completed. Alternatively you can register by calling Lesley Breen on (+44) 0141 553 1111.

Meeting Description

This one day course will provide process and chemical engineers with a practical appreciation of process control – including how control works; the key components of a control loop; what makes control difficult and different control strategies. An understanding of how process design decisions effect control loop operation is vital to ensure the plant performs as well as it can.

The course material presents a practical perspective of process control, with real world examples. Whilst control can be treated very mathematically, this course contains very little and will augment what may have been provided in more academic courses. The course does not assume any prior knowledge of process control – however a basic familiarity with the terms used in process plant control systems would allow delegates to maximise their benefit.

View Full Details at:

<http://www.isc-ltd.com//actclub/meetings/meet070516.html>

ACTC Meeting
"Process Control for Process and Chemical Engineers"
16th May, CATCH Training Facility, Stallingborough
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
15.30	CLOSE

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REGISTRATION FORM
"Process Control for Process and Chemical Engineers"
16th May 2007,
Stallingborough, near Grimsby

To register for the course please complete in block letters one form per delegate and send with proof of payment to the address given below. Alternatively, you may register on-line at <http://www.isc-ltd.com//actclub/meetings/meet070516.html>

Surname (incl. title) : First name(s) :
Company/Organisation :
Job Title :
Address :
Tel. : Fax :
Email :
Current Area of work :
Special Requirements (e.g. vegetarian) :
Company VAT ID No. (only needed if from an EC country) :

ACTC Members = Free of Charge

ACTC Non Members = £250 excl VAT. (£293.75 incl. VAT)

IET Control PN & IChemE Process Management & Control Group = 20% off for each member (£235 incl VAT)

Membership No:.....

Student / Academic = 40% off each place (£176.25 incl VAT) – Departmental Contact:

Two delegates from same company = 10% off total price

For bigger groups please contact us

Please reserve places on the course. I enclose £..... as the Total Sum Payable.

Additional Names.....

Please indicate method of payment :

- Cheque enclosed payable to Applied Control Technology Consortium.
- Payment sent by Paypal. (www.paypal.com/uk/)
- Bank transfer to: Applied Control Technology Consortium.
The Royal Bank of Scotland plc, Gordon St, Glasgow, G1 3PL, Scotland
Sterling Account number: 00644490, Sort Code: 830706.
Please include the delegate's names on the bank transfer.
Euro and US\$ bank account details available on request
- Purchase order: Please invoice my company/organisation at the address below.
Order Number :
Name (if different to above) :
Address :
Tel : Fax :

IMPORTANT

Course Fees are payable in advance and must be received two weeks prior to the commencement of the Course. Full Payment, or proof of payment, must accompany all registrations. Your registration is not confirmed until payment is received.

Cancellation: Fees will be refunded, less 10% handling charge, for any cancellation received in writing 14 days prior to the course. For cancellations after this date and no shows, ACTC reserve the right to charge the full rate. Substitute delegates are welcome at any time. ACTC also reserve the right to modify or cancel training courses, giving adequate notice and refunds to registrants.

VAT will be charged at the current UK rate of 17.5% unless otherwise advised. Companies from outside the EC pay the amount excluding VAT.

The Applied Control Technology Consortium, 50 George St., Glasgow, G1 1QE, Scotland
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