



UK SKILLS FOR SCIENCE BASED PROCESS INDUSTRY CONFERENCE 2007

*The National Science Learning Centre (NSLC), University of York
Tuesday 17 July 2007*

The science based Process Industry faces real skills challenges to maintain its competitive position and continue to contribute as the key UK economic sector. With over 10,000 companies operating in the UK, few are untouched by the accelerating impact of globalisation, increased regulatory compliance, demographic changes and societal expectations. Coping with these challenges will require a greater commitment from the Process Industry and a range of new approaches and solutions to the skills issues. These challenges will bring new responsibilities and opportunities for the public and private sectors in developing more collaborative innovations to support and maintain the UK science and technology skills base. High profile speakers from the industry, the HSE, the Sector Skills Councils, the regional chemical initiatives and academia will explore, share and highlight both the achievements and future challenges within the Sector Skills arena.

Skills and Education challenges in the UK

The Education and Skills challenge in the UK. Does science and engineering education in our schools prepare our children for careers in the process industry? How are we inspiring the workforce to join and stay in the industry – how good and up to date is the career's advice? How committed are our Companies to deal with the skills challenges we face? Where does the National Skills Academy fit? Are you affected by the reduction in the number of young people studying science and technology subjects at school and University?

Competence, Skills and Capability in a Global Context

Competence and capability in a global context. How competent is your organisation? Are you worried at the number of people working in the service industries and the lack of technical apprenticeships for young people wanting to enter our industry? What needs to be done - what is the competition doing?

Presentation and Discussion Session

Visit the exhibition and /or choose from a range of discussion sessions covering developing best practice in the following areas:

- Modern apprenticeships in the global market
- Skill solutions for contract engineering and services provision
- Innovative and creative solutions in a dynamic environment

Conference fee: £150 +vat

To register for the event, including optional Conference Dinner and accommodation for the evening of 16 July contact Leanne McNamara on 01484 433 215, leanne@ycf.org.uk or register online at www.ycf.org.uk



MONDAY 16 JULY 2007

18:15 - 18:45 **Drinks & Registration**

18:45 - 19:15 **Magic of Chemistry** (Professor John Holman, National STEM Director (Science Technology Engineering and Maths))

19:30 **Welcome & Dinner** (Glyn Hughes, CEO Humber Chemical Focus)

TUESDAY 17 JULY 2007

08:45 - 09:15 **Registration**

09:15 - 10:30 **Skills and Education Challenges in the UK**
Chairman Allan Clements, Director, Chemical Industry Education Centre
Setting the scene Richard Carter, head of the chemical directorate, DTI
The skills and education interface in the UK (Professor Graham Henderson, Vice Chancellor of Teesside University)
Does science education in schools prepare our children for university entrance and subsequent roles in business?
What needs to be done? (Joanna Woolf, CEO of Cogent)
How can we improve our skills base in the chemistry using industries in the UK?

10:30 - 11:00 **Break and Exhibition stands**

11:00 - 12:15 **Competence, Skills and Capability in a Global Context**
Chairman Ian Mains, Business Manager, North East Process Industry Centre
Global competition (Wayne Barnacal, Senior VP Operations Huntsman)
What are the skill requirements of a global business?
What are the requirements of a competent workforce (Kevin Allars, Head of Chemical Industries Division HSE)
A HSE perspective
Culture change (Paul Booth, President, SABIC UK)
How are the skills requirements changing in the Petrochemical Industry?

12:15 - 12:30 **Question & Answer session**

12:30 **Lunch, Networking, tours of National Science Learning Centre, tours of exhibitor stands**

Presentation & discussion sessions

13:45 - 14:45 **A1 - Modern Apprentices in a Global Market**
Chairman John Holton, Cogent
Apprentices represent the process industries' skilled employees of the future. They will support the continued transition from a resource-intensive to a knowledge-intensive industry which is dependent upon highly skilled, technology literate operators who can operate flexibly in teams. At the moment the number of skilled young people entering these industries is not meeting anticipated demand. The challenge is to ensure the programmes on offer are attractive, innovative, engaging and equip young people with the skills and underpinning knowledge that these high-value industries require to meet the challenges of the global economy.
This session will involve inputs of best practice from those organisations involved in public private partner initiatives. It will also provide information on the European vocational model and an apprentice workshop.
Speakers include: Keith Hunter - TTE, Clive Rounce - Centre for Assessment of Technical Competence - Humber, Richard Guy - Chief Executive, Manchester Solutions

13:45-14:45

B1 - Skills Solutions for contract Engineering and Services

Chairman Glyn Hughes, CEO Humber Chemical Focus Ltd

World class asset design, construction and operation for the process industries requires a world class supply chain delivering high quality engineering services delivery. The evolution of out-sourced and contracted in services has brought new skills challenges and solutions to this critical part of the process industries sector. In this section of the conference attendees will hear about the unique skills challenges this key service sector of the industry faces from customer and supplier as well as the challenges face by demand for every increasing skills quality.

Speakers include: Kevin Lancaster - Competency Manager, Total, Humber, Anthony Featherstone - Director Engineering, Construction, Industry Training Board

13:45-14:45

C1 - Innovative and creative solutions in a dynamic environment

Chairman Stan Higgins, CEO NEPIC

Process Industry Companies, large and small, are increasingly turning to more innovative and creative solutions to deal with their skill problems. Visiting overseas universities, working with the Armed forces, developing conversion training modules to deliver quick solutions, developing e-learning and web based approaches etc.

This session will look at a range of such case studies and explore ways of coming up with the quick fixes necessary to compete in today's skills environment.

Speakers include Kevin Thrower - GSK and Mark Richardson - MOD Career Transition Partnership

14:45-15:15

Break - Networking/Tours of NSLC/Exhibition stands

15:15-16:15

A2 Repeat of A1

15:15-16:15

B2 Repeat of B1

15:15-16:15

C2 Repeat of C1

16:15-17:00

Conference Summary

Steve Elliott, CEO Chemical Industries Association

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