

Technical Simulation Consultants Ltd Newsletter



A 'CATCH' FOR TSC ON HUMBERSIDE



CATCH'S Training Facilities

The Centre for the Assessment of Technical Competence – Humber (CATCH) has been created to satisfy the practical requirements of training and assessment for the 14 or more large chemical establishments on Humberside in the UK. TSC has supplied the computers and simulation software for a Virtual Control Room, which is being operated by TTE under their ProSimm™ banner.

Costing £8 million and taking six years to complete, CATCH is a ground-breaking facility which uses full-scale plant and simulators to provide realistic equipment in safety, and was built in direct response to industry needs.

The official opening of the ProSimm unit by the Mayor of NE Lincolnshire took place on Thursday 12th July. Michael Bolton, TSC's Managing Director, was there for the occasion, which was followed by several simulated emergency response demonstrations.

The ProSimm unit at CATCH includes four trainee workstations laid out as a conventional Control Room. The workstations include fully programmable touch screen keyboards, where emulations of alternative DCS keyboards are automatically displayed depending on the simulation model started.

Page 2 overleaf shows a photo of the Control Room at CATCH. The facility includes simulations of a Fractionation Train, an Olefins Continuous Reactor system, and several single plant systems including compressors, various control loops, and a reflux drum condenser system. The Windows XP based PCs will also run any of the range of over 50 generic simulation models from the TSC library, and have
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For more information on CATCH please visit www.catch-uk.org

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MONEY RAISED FOR CANCER RESEARCH

Nottingham's annual 'Race for Life' took place at the Victoria Embankment on Sunday 3rd June.

A big well done to the TSC girls, Ann Bolton, Alison Bolton and Lyndsey Done, who all took part. Between them they raised a staggering £450 towards Cancer Research UK.

Lyndsey said: "This was my fourth year of taking part, and as always it was a

fabulous day. It makes you feel immensely proud to be involved and everyone takes part for their own special reason."

Since it started in 1994, the 5km run has grown to become the UK's biggest women-only fundraising event. All the money raised helps fund the crucial work of Cancer Research UK .



A PEARL OF A SYSTEM FOR ESD SIMULATION TRAINING



ESD's Pearl Simulator

ESD Simulation Training is based in Aberdeen, Scotland, Calgary in Canada, and Perth in Western Australia, and regularly uses dedicated TSC simulation models in its training courses.

The latest supply from TSC is a high fidelity simulation of an offshore Oil and Gas Platform.

The simulator is operated using an ABB Operate^{IT} emulated DCS, through two twin screen trainee workstations. It is controlled through a dedicated trainer station, with scenario and fault injection capability, and monitoring of all aspects of the model for competence assessment.

A graphical Fire and Gas system is included, and the model may be started up and shut down using standard procedures.

ESD Simulation Training have named the system the "Pearl", and we wish them all success with this gleaming new investment.

"An associated trainer room allows full monitoring, control and fault injection on any of the models"

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the capacity to run site specific simulations for the 14 companies involved in the project.

An associated Trainer Room allows full monitoring, control and fault injection on any of the models. In addition, the system is equipped with radio and telephone links that the trainer may use to role-play, to develop and assess the communication skills between the trainee operators and field operatives/emergency services etc.

Michael said: "This facility at CATCH, using full-sized equipment but with safe fluids, together with dynamic process simulators for control room and communications training, provides a completely safe but valid approach to



CATCH's Training Room

practical competence assessment".

For more information on how TSC can help your company with Virtual Control Rooms please contact:

I.done@tscsimulation.co.uk or visit www.tscsimulation.co.uk

LATEST VISITS NEWS -

KUALA LUMPUR

TSC Engineer Sam Jago returned from a successful visit to Kuala Lumpur, Malaysia in June.

The trip involved meetings with representatives from ExxonMobil and Murphy Oil, organised through our partners, TPL. He demonstrated TSC's full suite of models including the most recently developed emulations to be

used for training purposes.

The visit was a follow up on quotations for both training and high integrity engineering models to be supplied to the area. It is hoped that both companies will benefit from their great interest in both the TSC generic range and site specific emulation models.

SAKHALIN

Richard Gerrard, one of our Senior Simulation Engineers, who is leading the team for the development of site-specific models for the giant Exxon Neftegas Ltd project in Sakhalin, Russia, recently spent over 2 weeks on site in Yuzhno.

He was accompanied by Alan Hurren from our partners INRS Training Services Ltd, and whilst there they

commissioned the training materials and site specific models for the Dekastri Shipping Terminal.

Travelling via Moscow was a new experience for Richard.

This flight route arrived directly into Yuzhno; previous visits have travelled via Japan with just a short onward connection into the Sakhalin city.

CASPIAN TECHNICAL TRAINING CENTRE BAKU

The CTTC, which is sited alongside the Sangachal Oil and Gas Terminal near Baku in Azerbaijan, is equipped with a wide range of TSC simulation models. These include a 10-station classroom suite of 22 basic plant models, as well as control room style simulators of the Central Azeri and Sangachal terminal processes.

In a visit at the end of July, our Managing Director, Michael Bolton, commissioned a second copy of TSC's Shah Deniz simulator into the centre. This simulator includes a full emulation of the ABB DCS system, in conjunction with over 500 process and ESD screens taken from the actual Shah Deniz control room system.

The TTE-Petrofac operated centre is a model of good practice, providing the full range of technical training to

technicians and operators on BP's largest Gas and Oil Fields and their Processing Facilities.

For further information please contact: sales@tscsimulation.co.uk



The Caspian Technical Training Centre

“The TTE –Petrofac operated CTTC is a model of good practice”



TSC PEOPLE

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Andrew Bolton joined TSC in July as our new Development Director. He joins with a wealth of knowledge in software development, having spent the last 11 years in computer programming for investment banks in the city of London.

Andrew, who gained a Chemical Engineering Masters Degree at Cambridge, said: "I'm really looking forward to being part of TSC and working with talented people to progress the product".

Welcome to the team Andrew!



Tomas Bleszynski compliments the TSC team for 9 weeks over the summer period.

He joins us from STEP Enterprise, which is a Shell sponsored student placement scheme.

Tomas is currently studying for a Masters Degree in Electronic and Computer Engineering, and has just completed his third year at Nottingham University.

He will prove a valuable member of the team over the next few weeks and TSC wishes him well.



Phil Westmorland, one of our Senior Simulation Engineers, has recently qualified to represent Great Britain in the Annual World Triathlon Championships for the third year running. It's to be held in Hamburg, Germany, in September

A Triathlon consists of a 1500m swim, 40km bike race and a 10km run

Phil competed against hundreds of hopefuls in order to qualify on July 8th and he is one of the top 20 athletes representing Great Britain in the 25-29 age group category.

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FPSO CONFERENCE-LONDON



The 6th Annual Summit of the IQPC Oil and Gas FPSO Systems took place on the 22nd and 23rd of May 2007 at the Café Royal, London.

Attending as a guest speaker was Michael Bolton, Managing Director of TSC, who discussed how to improve process

verification and optimisation by increasing the technical competence of FPSO operations teams.

TSC have made a significant contribution to improvements in safety, cost saving and efficiency advances for

companies including BP (for the Seillean, Foinaven and Schiehallion FPSO vessels), and for Shell and ExxonMobil.

Michael said: "The summit included representatives from most major FPSO suppliers and operators. There was general agreement that increasing technical competence leads to major cost and safety benefits."

On the second morning, Michael lead a very well attended breakfast seminar in which delegates could get involved with a hands on interactive session, take part in a FPSO simulation and get first hand experience of how trainees could benefit from this training method.

For further information on FPSO's email: sales@tscsimulation.co.uk

