Press release

IMMEDIATE RELEASE
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PSE showcases Advanced Process Modelling technology at ACHEMA

Software for accelerating innovation, managing risk transforms process design, operations

LONDON, 19 June 2012 --- Process Systems Enterprise (PSE), provider of the gPROMS modelling platform and ModelCare services, is showcasing the company's world-leading Advanced Process Modelling technology and services with a major presence at this year's ACHEMA exhibition and conference in Frankfurt.

In addition to an exhibition stand (Hall 9.2, C9), PSE has 11 presentations at the ACHEMA conference, covering topics such as model-based engineering of solids processes, design of high-performance and novel catalytic reactors, optimisation of steam crackers and scale-up of a HDPE polymer process.

"Advanced Process Modelling is a technology that is transforming the way the chemical process industries design and operate", says PSE's Chief Operating Officer, Mark Matzopoulos. "By providing deep process understanding based on high-fidelity predictive process models, it is possible to explore the decision space faster, reduce uncertainty and design better and safer processes than ever before".

The technology applies across the process industries, from advanced pharmaceutical manufacturing techniques being pioneered by Pfizer to Shell's applications in support of development of the next generation of giant Gas-to-Liquid (GTL) plants. Integrated oil company Repsol recently reported an improvement in process economics of tens of millions of Euros for a new petrochemical process through the application of model-based whole-plant optimisation techniques.

PSE is also holding a series of 10-minute on-stand demonstrations illustrating different aspects of the power of advanced process modelling, from the scale-up of crystallisers to optimisation of distillation column configuration and whole-plant design optimisation.

PSE provides a range of advanced process modelling products built on the gPROMS platform. At ACHEMA the company is showcasing:

- its flagship gPROMS ModelBuilder product, used for custom modelling and optimisation of complex processes within a flowsheeting environment
- the Advanced Model Libraries for high-fidelity predictive modeling of reaction and separation processes, including adsorption and membrane separation
- the gSOLIDS and gCRYSTAL products for optimisation of solids and crystallisation process design and operation
- the revolutionary gSAFT advanced thermodynamics technology that provides accurate physical properties for chemical species and complex mixtures with little or no experimental data.

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About Process Systems Enterprise Ltd

PSE (www.psenterprise.com) is the world's foremost provider of Advanced Process Modelling software and services to the process industries. Process companies apply advanced process models to make better, faster and safer design and operating decisions by reducing uncertainty.

Use of PSE's technology and services results in faster innovation, improved designs of processes and products, enhancement of existing operations and more effective R&D and experimental campaigns. Results are achieved with relatively low investment compared to alternative approaches, with rapid return on investment.

PSE's global customer base of process manufacturing companies is served by operations in the UK, USA, Germany, Japan and Korea, and agencies in Saudi Arabia, China, Thailand, Malaysia and Abu Dhabi. PSE is a spin-out of Imperial College London, and its software is used in over 200 universities around the world.

The company's own ability to innovate was recognised with the award of the prestigious Royal Academy of Engineering MacRobert Award for Engineering Innovation, the highest UK engineering prize.

About the gPROMS platform

gPROMS® is the world's leading Advanced Process Modelling platform. Models constructed with gPROMS family products are used to explore the design or operational decision space to provide accurate predictive information for decision support.

This helps companies reduce time-to-market for new processes or products, manage development risk, improve designs, enhance production, reduce capital and operating expenditure and ensure better compliance with safety, health and environmental requirements.

The gPROMS ModelBuilder software is applied in all sectors of the process industries, with particular focus on complex operations such as reaction, separation, and polymerisation. Domain-specific process engineering tools built on the gPROMS platform include gFUELCELL®, gSOLIDS®, gCRYSTAL® and gFLARE®.

The gPROMS platform benefits from significant annual investment, and PSE is committed to keeping it at the forefront of process modelling technology.