# Press release

**IMMEDIATE RELEASE**
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## PSE calls for submissions for €5000 Model-Based Innovation prizes
### Best use of gPROMS advanced process modelling in support of research

LONDON, 25 May 2011 --- Process Systems Enterprise (PSE), provider of the industry-leading gPROMS process modelling platform and model-based engineering services, today announced the opening for 2011 submissions for the prestigious PSE Model-Based Innovation Prize.

PSE awards annual prizes totalling €5000 – a winner's prize of €3000 and two runners-up prizes of €1000 each – for the best published papers in which gPROMS is used to generate research results in a novel area of application or technology.

PSE is a leader in the emerging field of Model-Based Innovation (MBI), in which high-fidelity mathematical models of processes and products are used to accelerate innovation and reduce technology risk. MBI helps to integrate R&D activities with engineering design, resulting in optimised process design and operation and reduced costs.

gPROMS is the world's leading modelling environment for such applications, and is widely used throughout the chemicals, energy, petrochemical, food and pharmaceuticals sectors. It is also used to support academic research in some 200 academic organisations around the world.

The 2010 prize was won by Ala Eldin Bouaswaig and Sebastian Engell from the Process Dynamics and Operations Group at the Technische Universität Dortmund, Germany, with a paper published in Chemical Engineering Science on mathematical techniques for modelling of complex phenomena such as particle growth in emulsion polymerisation.

Researchers using gPROMS in support of research published between 1 July 2009 and 30 June 2011 are invited to submit a paper for the 2011 prize via the PSE website (www.psenterprise.com) by 15 July 2011. The prize is open to applicants from industry as well as academia.

Submissions will be judged by the panel of three leading academics in the field of Process Systems Engineering: Professor Stratos Pistikopoulos (Imperial College London), Professor Rafiqul Gani (Technical University of Denmark) and Professor Michael Georgiadis (University of Western Macedonia, Greece). Prizes will be awarded at the 2011 AIChE Annual Meeting in Minneapolis.

Mark Matzopoulos, PSE COO, says "As a company closely involved in research and innovation throughout the process industries, we are keen to recognise and foster the efforts of others who are doing the same."

### Further information

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Editors' materials: www.psenterprise.com/news/pr110525.html

## About Process Systems Enterprise Ltd

PSE (www.psenterprise.com) is one of the world's foremost providers of high-fidelity process modelling software and model-based engineering (MBE) services to the process industries. MBE applies high-fidelity predictive mathematical models of process equipment and phenomena to provide accurate numerical information for decision support in process innovation, design and operation.

Use of PSE's technology and services within MBE programs results in faster innovation, improved designs of processes and products, enhancement of existing operations and more effective R&D and experimental programmes. Results are achieved with relatively low investment compared to alternative approaches – where these exist – with rapid return on investment and transfer of modelling know-how to industry.

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

The company's own ability to innovate was recognised with the receipt of the prestigious 2007 Royal Academy of Engineering MacRobert Award for Engineering Innovation, the highest UK engineering prize.

## About the PSE Model-Based Innovation Prize

The annual PSE Model-Based Innovation Prize comprises a €3000 winner's and two €1000 runners-up prizes awarded to the authors of the best paper whose results are substantially based on results obtained using PSE's gPROMS advanced process modelling environment.

The MBI prize is open to researchers from industry, academia and research organisations. The judges favour research that focuses on novel areas of process and related technology or novel approaches to traditional process areas, as well as applications that have a positive impact on society and the environment. The prize is awarded at a major chemical engineering event each year.

## About gPROMS

gPROMS® is the world's leading high-fidelity process modelling environment. gPROMS models are used to provide accurate predictive information for decision support to 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 package is applied in all sectors of the process industries, with particular focus on modelling of complex operations such as reaction, separation, and polymerisation. PSE also supplies a range of process engineering tools built on the gPROMS platform, including gFUELCELL, gSOLIDS, gCRYSTAL and gFLARE.

gPROMS is applied across the 'process lifecycle', from laboratory experimentation, through process and detailed design, to online operation, and is central to a model-based engineering approach. PSE is committed to maintaining gPROMS at the leading edge of process modelling technology.

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