



# Press release

**IMMEDIATE RELEASE**

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## **PSE awards €5000 Model-Based Innovation prizes**

### **Winning Louisiana State University paper focuses on polymerisation process control**

LONDON, 4 November 2016 --- Process Systems Enterprise (PSE), the Advanced Process Modelling company, today announced the winners of the prestigious PSE Model-Based Innovation (MBI) Prize for 2016.

PSE, providers of the world-leading gPROMS process modelling platform, awards an annual €3000 winner's prize and two runners-up prizes of €1000 each for the most innovative use of advanced process modelling techniques in support of published research. The prizes will be awarded at a reception on Wednesday 16 November at the AIChE Annual Meeting in San Francisco.

The winners of the main prize are Jose Romagnoli, Navid Ghadipasha and Aryan Geraili of Louisiana State University, Carlos Castor Jr and Wayne Reed of Tulane University, and Michael Drenski of Advanced Polymer Monitoring Technologies, Inc., for their paper *Combining On-Line Characterization Tools with Modern Software Environments for Optimal Operation of Polymerization Processes*, published in *Processes* 2016.

The judges summarised the research presented in the paper as "an excellent piece of work demonstrating an integrated framework for the dynamic modelling, simulation, estimation, optimisation and feedback control of a polymerisation process".

Runners up were Ioscani Jimenez del Val of University College Dublin, Yuzhou Fan of Technical University of Denmark and Dietmar Weilguny of Symphogen A/S, Denmark, for their paper *Dynamics of immature mAb glycoform secretion during CHO cell culture: An integrated modelling framework*, and Yanan Cao and Christopher Swartz of McMaster University and Jesus Flores-Cerrillo and Jingran Ma of Praxair Inc. for their paper *Dynamic Modeling and Collocation-Based Model Reduction of Cryogenic Air Separation Units*. Full details can be found on the [PSE website](#).

The prize is judged by team of leading academics in the field of process systems engineering, Prof. Stratos Pistikopoulos (chair) of Texas A&M Energy Institute, Associate Prof. Michael Georgiadis of the Aristotle University of Thessaloniki, Greece and Prof. Eva Sorensen of University College London.

gPROMS is widely used throughout the chemicals, energy, petrochemical, food and pharmaceuticals sectors, including in some 200 academic organisations. Mark Matzopoulos, deputy MD, says "PSE works closely with academic communities around the world to foster innovation, through our academic programme, the MBI Prize, our Partnerships for Advanced Process Modelling and the PSE Academic Teaching Highway (PATH). We congratulate our winners on the quality of their work."

### **For editors**

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## **About Process Systems Enterprise Ltd (PSE)**

PSE ([www.psenterprise.com](http://www.psenterprise.com)) is the world's foremost provider of Advanced Process Modelling software and services to the process industries. Companies apply advanced process models to explore the process decision space rapidly and effectively, in order to reduce uncertainty and make better, faster and safer design and operating decisions.

PSE provides gPROMS advanced process modelling products built on our gPROMS® equation-oriented platform. The two core environments for engineers and scientists are the gPROMS ProcessBuilder® flowsheeting environment for fluid processes and the gPROMS FormulatedProducts® environment for integrated design and optimisation of formulated products and their manufacturing processes. The company also provides a number of gPROMS Embedded Application products for operations and planning.

PSE is committed to defining, developing and driving the adoption of next-generation process modelling software and workflows. The unique advantages that PSE tools bring are the combination of high-fidelity models, powerful mathematical optimisation and global system analysis capabilities, and an equation-oriented framework capable of rapid and robust solution of complex problems.

Use of PSE's technology and services results in faster innovation, improved process and product designs, enhanced operations, reduced risk, more effective R&D and experimental campaigns and better capture and transfer of corporate knowledge across the organisation. Results are achieved with relatively low investment compared to alternative approaches, with rapid returns on investment.

PSE's global customer base of Fortune 500 process industry companies is served by operations in the UK, USA, Switzerland, Japan and Korea, and agencies in China, Malaysia, Taiwan and Thailand. PSE is a spin-out of Imperial College London, and its software is used in over 200 universities around the world.

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