Press release

IMMEDIATE RELEASE
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PSE awards €5000 Model-Based Innovation prizes

Winning University of Padova paper demonstrates gPROMS advanced capabilities in biomedical applications

LONDON, 3 November 2014 --- Process Systems Enterprise (PSE), the Advanced Process Modelling company, today announced the winners of the prestigious PSE Model-Based Innovation (MBI) Prize for 2014.

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, 19 November at the AIChE Annual Meeting in Atlanta, GA.

The winners of the main prize are Federico Galvanin, Massimiliano Barolo, Roberto Padrini, Alessandra Casonato and Fabrizio Bezzo of University of Padova, Italy for their paper *Model-Based Approach to the Automatic Diagnosis of Von Willebrand Disease,* published in AIChE Journal.

The judges summarised the research presented in the paper as "an excellent piece of research work and publication that demonstrates the key role of advanced process modelling in in biomedical applications".

Runners up were George Dimopoulos, Chariklia Georgopoulou, Iason Stefanatos, Alexandros Zymaris and Nikolaos Kakalis from DNV Research & Innovation, Greece, for their paper *A general-purpose process modelling framework for marine energy systems*, and Kosan Roh and Jay Lee from Korea Advanced Institute of Science and Technology (KAIST), Korea, for their paper *Control Structure Selection for the Elevated-Pressure Air Separation Unit in an IGCC Power Plant: Self-Optimizing Control Structure for Economical Operation*. Full details can be found on the PSE website.

The prize is judged by a team of leading academics in the field of process systems engineering, Professors Stratos Pistikopoulos (chair) of Imperial College London and Michael Georgiadis of the Aristotle University of Thessaloniki, Greece.

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

Editors

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About Process Systems Enterprise Ltd (PSE)

PSE (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 family products built on its gPROMS® advanced modelling platform. These include the general-purpose gPROMS ModelBuilder environment and the domain-specific gSOLIDS®, gCRYSTAL®, gFUELCELL®, gCOAS®, gCCS®, gFLARE® and gWATER® products. The company also provides expert Consulting services based on its tools.

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 Abu Dhabi, 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 is committed to defining, developing and driving the adoption of next-generation process modelling software and workflows. 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 UK's highest engineering prize.

About gPROMS

gPROMS® is the world's leading Advanced Process Modelling platform. It provides the underlying modelling, solution and optimisation engine for PSE's gPROMS family of products: general process engineering tools that include gPROMS ModelBuilder and the Advanced Process Libraries for catalytic reaction and gas-liquid separation; and domain-specific gPROMS platform products that include gSOLIDS®, gCRYSTAL®, gFUELCELL®, gCOAS®, gCCS®, gFLARE® and gWATER®.

gPROMS models 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.

gPROMS family products are applied in all sectors of the process industries, with particular focus on modelling of complex operations such as reaction, separation, and polymerisation, and across the 'process lifecycle' at multiple scales, from laboratory experimentation through process and detailed design to online operation.

PSE is committed to maintaining the gPROMS platform and the products built on it at the forefront of process modelling technology.