

An orange square icon.

## Press release

---

FOR IMMEDIATE RELEASE

Release Date : 25 September 2001

### **PSE announce gPROMS<sup>®</sup> 2.1 product family**

#### **Powerful process modelling tailored to diverse user requirements**

Process Systems Enterprise (PSE) of London today announced the release of the gPROMS 2.1 family of software products built on the company's world-leading dynamic process modelling, simulation and optimisation technology. The three products being released, while all utilising common underlying technology, are each tailored to meet the specific demands of very different classes of user.

The gPROMS 2.1 family comprises the gPROMS ModelBuilder, aimed at expert process modellers, the gPROMS Server, a fully-functional modelling and solution engine that can be embedded within third-party software applications, and the gPROMS Simulink<sup>®</sup> Block Object, which enables control engineers to embed complex non-linear process models in their control design applications.

"We are moving away from a single 'monolithic' approach to a point where we cater for diverse modelling needs right across the process industries", says Mark Matzopoulos, Managing Director of PSE. "We have a continuous programme of developments which we will roll out over the next year, all facilitated by our commitment to open architecture in all our products".

gPROMS ModelBuilder 2.1 brings major user interface, interoperability and solution enhancements to the well-established core gPROMS modelling product – in line with PSE's long-term commitment to continuous usability enhancement across the gPROMS family – as well as a new generation of dynamic optimisation and parameter estimation solvers capable of dealing with complex discontinuities in models.

Integral to gPROMS 2.1 is the Cape Open physical properties socket which allows CO-compliant physical properties packages such as Aspen Technology's Properties Plus<sup>™</sup>, among others, to be used within gPROMS models. "The Cape-Open interface enables our customers to realise the power of gPROMS' dynamic modelling and optimisation while deploying the same properties as for their steady-state simulations. This improves payback on existing investment in process modelling and helps pull together the various strands of modelling across the company in a consistent manner", says Matzopoulos.

The gPROMS gSERVER allows software developers and system integrators to embed the full process modelling and solution power of gPROMS - from steady-state and dynamic simulation, through to gPROMS' unique capabilities in the areas of steady-state and dynamic optimisation and parameter estimation - within their own applications. See separate press release for further information.

The gPROMS Simulink<sup>®</sup> Block Object enables control engineers to introduce any gPROMS process model as a block within a Mathworks' Simulink<sup>®</sup> flowsheet. This provides them, for the first time, with the ability easily to deploy complex non-linear models - for example, complex distillation or reaction systems - within their environment of choice. Integrating gPROMS and Simulink<sup>®</sup> models is a straightforward task, and the complexity of gPROMS' solution of large-scale differential (including partial differential) and algebraic systems is completely hidden from the user. PSE has been accepted as an official Matlab<sup>®</sup> Connections partner.

**About Process Systems Enterprise Ltd:** PSE (<http://www.psenterprise.com>) is one of the world's leading providers of model-based technology and services for design and decision support to the process manufacturing industries. The company was founded in 1997, originally to deliver and support in the commercial market innovative process modelling technology originating from London's Imperial College. Among its unique offerings are advanced software packages, services and expertise for modelling and simulation of manufacturing processes and optimal design, planning, scheduling and operation of flexible manufacturing facilities. PSE has established itself as a leading independent high-tech provider to a growing, global customer base that encompasses the largest process manufacturing and automation companies in the world. The company is a winner of the prestigious UK Queen's Award for Enterprise and Innovation for 2001, for its gPROMS mathematical modelling framework and dynamic optimisation technology.

**About gPROMS:** gPROMS was originally developed at the Centre for Process Systems Engineering of London's Imperial College as the "next generation" dynamic process modelling environment, and has been under commercial development by PSE since 1997. It is widely used for its industry-proven capabilities in detailed modelling and optimising of process plants under dynamic, as opposed to steady state, conditions. gPROMS' advanced modelling and solution techniques and open software architecture have led to it becoming the tool of choice in many areas of advanced modelling application, in particular in areas such as crystallisation and polymer process modelling where suitable general-purpose tools have not been available in the past.

For further information, please contact:

Jonathan Felton  
Business Development

**Process Systems Enterprise**  
Bridge Studios  
107a Hammersmith Bridge Road  
London W6 9DA, United Kingdom

Tel +44 (0)20 8563 0888  
Fax +44 (0)20 8563 0999  
Email [j.felton@psenterprise.com](mailto:j.felton@psenterprise.com)

On-line media information is available at: <http://www.psenterprise.com>