

FOR IMMEDIATE RELEASE

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TU Delft and PSE to collaborate on crystallisation modelling gPROMS advanced model libraries provide basis for research

Process Systems Enterprise (PSE), provider of the gPROMS Advanced Process Modelling (APM) software, and Delft University of Technology (DUT) department of Process & Energy have signed an agreement to collaborate in the delivery of crystallisation modelling technology to industry.

TU Delft is widely recognised as a leading centre for industrial crystallisation research. The university founded the influential UNIAC consortium and its successor CRYSCODE projects, co-sponsored by international process companies such as DuPont, DSM, BP, BASF, BAYER, Akzo Nobel Ajinomoto, Solvay and Purac Biochem. It has also been a leading member of a number of European projects such as SINC-PRO, which demonstrated the applicability of Model-based Predictive Control (MPC) techniques to crystallisation processes.

gPROMS is the world's leading APM environment, and is used throughout the chemical and other process industry sectors for optimisation of design and operation of process plants and to accelerate innovation. gPROMS' advanced model libraries for high-accuracy predictive modelling of reaction, separation, crystallisation and polymerisation processes are recognised as leaders in their fields.

TUD and PSE will collaborate in the area of crystallisation research in general and the application of process and product modelling to crystallisation processes in particular, in order to maintain and extend their respective leading positions in these areas.

PSE will provide TUD with gPROMS licences, as well as the gPROMS Advanced Model Library for Solution Crystallisation (AML:SC) and extended support. In return, TUD will provide PSE with early information on published crystallisation research, including knowledge, data and models, and feedback on the crystallisation library. PSE will become a member of the CRYSCODE consortium and other TUD initiatives in the area of crystallisation process and product modelling.

Dr Herman Kramer, Associate Professor at TU Delft says "crystallisation processes are very complex. In order to improve their performance we need advanced modelling tools, to enable easy development and validation of rigorous process models that allow accurate predictions about how the system will behave on scale-up and in response to changes in operation. It is also important to have a single environment that allows easy incorporation of laboratory data into models."

Prof. Costas Pantelides, Managing Director of PSE, says "This is a major step, both in our aim to become the leading provider of crystallisation modelling technology and services to industry, and in our programme to forge alliances with leading universities around the world in our domains of interest."

Notes for Editors

About TU Delft

The mission of the Department of Process & Energy of the Delft University of Technology, is to teach and perform world class application-oriented R&D on product, process and equipment aspects of separation technology.

In the Separation Technology group a microscopic view is adopted, where research is conducted on crystallization thereby contributing to the understanding of the fundamental crystallisation phenomena and to the modeling, design, and control of industrial crystallizers. Furthermore, hybrid processes, process intensification processes and membrane processes are studied with the goal of energy efficient process configurations. In many cases the research is performed in cooperation with industrial sponsors (active in pharmaceuticals, fine-chemicals, biotechnology, salt-chemistry, petro chemistry and oil & gas production). This illustrates the group's philosophy, which is to resolve diverse practical problems through an integrated scientific approach.

About Process Systems Enterprise Ltd

PSE (www.psenetprise.com) is one of the world's foremost providers of Advanced Process Modelling software and Model-Based Innovation services to the process manufacturing industries. These apply high-accuracy mathematical models of process equipment and phenomena to provide high-quality information for decision support in process innovation, design and operation.

Use of PSE's technology and services results in faster innovation, improved designs of processes and products, enhancement of existing operations, better economic planning of complex 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 offices in the UK, USA, Germany and Japan, and agencies in China, India and Korea.

About gPROMS

gPROMS[®] is the world's leading Advanced Process Modelling (APM) environment. It is used to provide high-quality information for decision support in innovation, design and operation across all sectors of the process industries, with particular focus on modelling of complex operations such as reaction, crystallisation and polymerisation. Companies apply gPROMS to reduce time-to-market for new processes or products, improve designs, enhance production, reduce capital and operating expenditure and comply more effectively with safety, health and environmental requirements.

gPROMS is applied across the 'process lifecycle', from laboratory experimentation, through process and detailed design, to online operation, and is central to the emerging technology of Model-Based Innovation. PSE also provides gPROMS as a third-party APM and solution engine to channel partners in the automation, operator training and process simulation markets. PSE is committed to maintaining gPROMS at the leading edge of modelling technology.

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