



PSE and IPCOS announce cooperation

Leuven and London, June 12th 2003

Today IPCOS and PSE announced the start of a close cooperation for the 'deployment' of advanced process control and simulator technology. IPCOS brings its INCA and PathFinder technology APC experience while PSE will bring its gPROMS simulator and its modelling experience. The synergy of all these technologies and experiences is a big step in the deployment of Plant wide dynamic and static optimization.

Starting with a full scope dynamic simulator the way towards a completely optimized plant is straightforward. These simulators will be used for softsensing purposes by putting them online and in parallel with the real process. These softsensors will be able to generate very accurate product quality information and provide more insight in the process. Secondly the simulators will be used to generate models for the advanced process controllers. This will reduce the total testing time for the plant to a minimum and even to zero. Finally static and dynamic plant wide optimizers like PathFinder are used to compute optimal operating points and dynamic trajectories based on the models.

This is the future of advanced process control. Simulators tend to become more powerful every day and the modelling techniques are getting better and better. Many polymer and bulk chemical plants can already be modelled in no time by using gPROMS and the process know-how of PSE. These first principle simulators can cover much wider operating ranges than models based on tests in certain operating points. Recalibration of these models if the plant shifts to new and better operating points is not necessary with first principle models.

Although the whole process industry can and will benefit from these techniques initially the (petro-) chemical industry will be targeted.

About IPCOS

IPCOS is the result of the merger of the Dutch company IPCOS Technology and the Belgian company ISMC.

'Creators in Control' describes exactly what IPCOS is and what we do. We create state of the art advanced process control solutions and offer the customer all the engineering services that are needed to install these solutions and keep them up to date. IPCOS focuses primarily on the (petro-)chemical, the glass manufacturing, the power and the oil production industry. Since we put a lot of effort in research we deliver state of the art

IPCOS Netherlands: Bosscheweg 143, 5282 WV Boxtel, Netherlands, tel: +31 411 613 500, fax: +31 411 616 710

IPCOS Belgium: Technologielaan 11/0101, B-3001 Leuven, Belgium, tel: +32 16 39 30 83, fax: +32 16 39 30 80

Email: info@ipcoss.com

Website: <http://www.ipcos.com>





products that are way ahead of our competitors. Our office in Boxtel is the excellence centre for the Chemical and Glass industry. The office in Leuven is the headquarter of IPCOS and the excellence centre for the Chemical, the Power and the Oil production industry. In these offices state of the art products like INCA, RaPID, Presto and PathFinder are developed.

For further information, please contact:

Christiaan Moons

Managing director, Head of Sales & Marketing

Technologielaan 11/0101

B-3001 Leuven, Belgium

Tel +32 (0)16 39 30 83

Fax +32 (0)16 39 30 80

Email Christiaan.moons@ipcocos.com

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

About Process Systems Enterprise Ltd

PSE (<http://www.psenterprise.com>) is one of the world's leading deliverers of modelling technology and model-based 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, and for the past two years has been listed among the 100 fastest-growing technology companies in the UK. It employs around 35 graduates and PhDs at its headquarters in London, UK, and has sales and consulting operations in Germany and Japan.

For further information, please contact:

John de Brugha

Head of Sales & Marketing

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.debrugha@psenterprise.com

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

IPCOS Netherlands: Bosscheweg 143, 5282 WV Boxtel, Netherlands, tel: +31 411 613 500, fax: +31 411 616 710

IPCOS Belgium: Technologielaan 11/0101, B-3001 Leuven, Belgium, tel: +32 16 39 30 83, fax: +32 16 39 30 80

Email: info@ipcocos.com

Website: <http://www.ipcos.com>

