

seminars

Acknowledgement

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(10042430, Development of 500 MPa

(10042430, Development of 500 MI URF & SIL 3 Manifold and Subsea System Engineering for Deepsea Field)

Who

Prof. Costas Pantelides Managing Director, PSE

Mark Matzopoulos VP Chemicals, Petrochemicals & Refining, PSE

Dr Steve Hall
Director – Engineering Solutions, PSE

Prof. Jay Hyung Lee Department of Chemical and Biomolecular Engineering, KAIST

Dr Hokyung Lee Research Fellow, CRD, LG Chem

When

Tuesday, 27 September 2016

Where

Hanbit Hall, 3F Daekyo Center (239, Daedeok-daero, Seo-gu, Daejeon, Korea)
*Change of venue may occur.

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The key role of optimisation technology in Oil & Gas process design and operations

09:00 Registration

09:30 Introduction to Advanced Process Modelling

Advanced Process Modelling combines high-fidelity process models and powerful optimisation techniques to help process organisations create competitive advantage. This session explains how it is done and what is now possible.

10:00 New technologies for optimising oil & gas production

New production optimisation techniques that consider well and pipeline routing decisions simultaneously make it possible to improve production value from a typical oil or gas field by hundreds of thousands of dollars per day.

10:30 Optimising olefins plants for different gas feedstocks

By combining detailed furnace models with online plant data using state estimation techniques, it is possible to accurately predict yield and degree of coking in order to significantly improve real-time optimisation as well as de-coking schedule.

11:00 Refreshment break

11:15 Invited lecturer – Prof. Jay Hyung Lee, KAIST

Simulation and optimisation approach to uncertain, multi-Level, multi-stage decision problems in Process and Energy industries

12:00 Optimising multi-site natural gas processing to maximise asset utilisation

New optimisation technologies make it possible to optimise process operation over multiple sites simultaneously, to maximise asset utilisation and minimise energy costs, improving economics by tens of millions of dollars per year.

12:30 Lunch

14:00 Using advanced monitoring and optimisation to improve refinery margins

Refineries lose tens of millions of dollars per year from poor management of feed transitions and preheat train fouling. Advanced monitoring and optimisation technologies now make it possible to reduce costs and boost production.

14:30 Optimising utilities for production sites to reduce energy costs

By applying rigorous optimisation to the supply of steam, fuel gas and electricity it is possible to minimise daily operating costs in the face of fluctuating demand and costs.

15:00 Refreshment break

15:15 Invited lecturer – Dr Hokyung Lee, LG Chem

Advanced analytics and optimisation in LG Chem

16:00 Optimising design and operation of wastewater treatment plants

Model-based optimisation of wastewater treatment plants helps minimise energy costs while maintaining water quality.

16:30 Wrap-up discussion

17:00 Finish

Advanced Process Modelling. Create competitive advantage.