

Seminar: Digital design, digital operations – practical approaches to deliver value NOW

25 October 2019
Daejeon Convention Center (DCC), Daejeon, Korea

안녕하십니까? PSE Korea입니다.

Digitalisation은 공정 산업 전반에서 지속적으로 논의되고 있으며, 최근 많은 분들께서 관심을 갖고 계신 주제입니다. PSE와 Siemens는 10월 23~25일 대전컨벤션센터에서 열리는 한국 화학공학회 2019년도 가을학술대회에서 Digital design과 Digital operation의 최신 정보를 교류하고 공정 산업의 발전에 이바지하고자 'Digital design, digital operations – practical approaches to deliver value NOW' 세미나를 마련하였습니다.

이번 세미나는 Digital design의 혁명에 앞장서 온 PSE와 Digitalisation 업계 리더인 Siemens가 공동으로 주관하며, 관련 분야의 현직 전문가분들을 연사로 초청하여 화학, 에너지, 제약/식품 등 여러 공정 산업 분야에서의 Digital design 및 Digital operation 기술 현황과 비전에 대한 전문적이고 심도 있는 강연을 진행하며 최근 여러 선도 기업에서의 운영 사례를 발표할 예정입니다.

실무에 도움이 되실 수 있도록 다음과 같이 프로그램을 구성하였으니 관심 있으신 분들의 많은 참석 부탁드립니다. 이번 세미나를 통해 Digitalisation 기술과 전략이 공정 산업에서 창출할 수 있는 강력한 가치에 대해 알아보고, Digital design, Digital operation 관련 정보와 사례를 공유하고 논의해 보실 수 있는 유익하고 뜻깊은 시간 되시기를 바랍니다.

프로그램

13:00-13:30	Digital design, digital operations – current practice and trends Digital design and operations are hot topics in the process industries, but there is a lack of consensus as to what the terminology means in practice. This presentation describes (1) a vision for digitalisation that combines deep process knowledge in the form of high-fidelity models with data – laboratory and plant – capable of delivering significant value, and (2) a practical set of technologies and solutions capable of delivering value now, not just at some distant point in the future.	 Mark Matzopoulos VP Energy & Chemicals, PSE
13:30-14:00	Intelligent digital operations The ability to incorporate deep process knowledge in the form of first-principles models within digital operations applications is a major step forward for operation of large-scale process plants. This presentation describes what this means in practice, and the ways in which the company is taking the new applications to market as part of its digital transformation strategy.	 Dr Mathias Oppelt Head of simulation, Siemens Process Automation
14:00-14:30	Intelligent digital operations case studies This presentation describes some practical applications, including; ethylene yield monitoring and furnace optimisation technology, a site utilities optimiser for minimising energy cost, and a large-scale gas operations optimisation that enables optimal response to abnormal situations.	 Dr Steve Hall Director of Digital Applications, PSE
14:30-15:00	Reactor decision support systems for operators Similar digital operations technology can be applied to monitoring and optimising the complex reactors at the heart of most chemical processes. This presentation describes a recent application, illustrated with typical operator decision support dashboards.	 Dr Sang Phil Han President, PSE Korea/APAC
15:00-15:30	Coffee break	
15:30-15:45	Digital design for formulated products – pharma, food & specialty chemicals Digital design has been increasingly applied in the pharmaceuticals and other formulated products sectors in the last 5 years, and was given a significant boost by the 4-year Advanced Digital Design of Pharmaceutical Therapeutics (ADDoPT) project, which is currently drawing to a close. This session describes some of the applications addressed in that project, among others.	 Dr Sean Bermingham VP for the Formulated Products Business Unit, PSE
15:45-15:55	Case: Digital design of drug substance manufacture	
15:55-16:05	Case: Digital design of continuous drug manufacturing processes	
16:05-16:15	Case: Digital design of spray drying processes for food manufacture	
16:15-16:25	Case: Digital design of lithium processing operations	
16:25-16:55	Co-simulation for detailed equipment design – spray dryers The combination of CFD and advanced process modelling provides powerful capabilities in cases where complex chemistry and mixing effects both need to be taken into account. This presentation describes the principles, practice and benefits of combining the two technologies, illustrated with examples.	 Dr Ravindra Aglave Director for Energy and Process Industries, Siemens PLM Software
16:55-17:00	Wrap-up and discussion	

등록 안내

- 세미나는 무료로 진행되며, 참석을 원하시는 분께서는 온라인 사전등록을 해주시기 바랍니다. (한국화학공학회 가을학술대회 등록은 필수이오니, 별도로 사전/현장등록을 진행 후 참석해 주시기 바랍니다.)
- 세미나에 참석하신 모든 분들께 소정의 선물을 드립니다.

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문의처

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일시

2019년 10월 25일 (금)
13:00-17:00

장소

대전컨벤션센터(DCC)

등록비

무료

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