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Enabling technology

Process modelling verifies our understanding

In the past ten years significant advances have been made in the ability to model chemical processes. Infineum is employing dynamic process modelling techniques to organise our chemistry and process knowledge in a robust and functional format. To meet this goal we have engaged in a collaborative relationship with London-based Process Systems Enterprise Ltd (PSE).

A process model is a representation of our technical understanding of that process. Creating a dynamic model is a means of developing and verifying our understanding of the chemistry and physical processes occurring and is a very efficient method of knowledge building, especially during product development. This also provides a structured framework for experimentation to ensure the maximum amount of information is extracted from every experiment during product development.

A robust process model can be used to develop innovative solutions for new or existing processes and allows new operating procedures or new equipment configurations to be easily tested. By using the model to replace some additional experimentation resources and time can be saved in the development process.

Sparking future innovations

As the industry continues to see new technical challenges and opportunities innovative solutions will be needed to meet market requirements. A technology programme which focuses on both the near and long term ensures that the appropriate technical knowledge is created and leveraged in product developments. Today's research will spark future innovations. We will build on existing thinking with our new technical insights in order to deliver solutions for existing and future market opportunities.

The connectivity of the knowledge from all aspects of our research and development is essential to create the maximum value. The enabling tools that we have implemented play an important role in our knowledge management. Infineum will continue to develop these tools and collaborate with experts in other organisations so that we can unleash the full technology capability of the organisation.

To find out more about Infineum's products and services please visit www.infineum.com