

Press release

Advanced data optimisation made easy due to new software service

New ICT advance in process optimisation helps industrial chemists streamline their synthesis

Nijmegen, The Netherlands – June 8, 2010 – FutureChemistry today announces the launch of its newest product: FlowFit. Being a user-friendly software service, FlowFit is designed to inspect large datasets to obtain optimal parameter values using advanced statistics. Intended to speed up chemical process development, FlowFit makes the complex realm of chemometrics much more accessible.

Within the chemical industry, process development requires significant R&D expenditure. For an important chemical product to be synthesised, optimal parameters for the chemical process have to be resolved in order to maximize quality and reduce costs: when those parameters are only slightly off the right value the process could result in tonnes of loss in both invested capital and resources. Finding these optimal values is a time consuming process involving both chemical laboratory work and data handling.

Until recently, most advances have been made at the laboratory floor. Key technologies like flow chemistry in microstructured reactors and automated reaction screening have reduced time and resources spent within the R&D process. However, the problem of data processing remained until now.

FlowFit is, unlike general statistics solutions, designed for process optimisation. It handles extended reaction datasets to retrieve the optimal chemical parameters. These parameters may include temperature, reaction speed, ratio and quenching. When corresponding optimal values are determined, the scale up from milligrams to multiple tonnes can commence.

In line with the latest trends in ICT, FlowFit is provided as Software as a Service (SaaS). This makes updates and upgrades instantaneously available to FlowFit users. Rather than purchasing the hardware and software to run an application, customers need only a computer and internet access to run the software. In conclusion: FlowFit increases sustainability for both chemical process optimisation as well as software implementation.

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FutureChemistry Holding BV translates conventional chemical reactions to flow chemistry processes and develops its own microreactor hardware for optimizing and screening chemical reactions. Flow chemistry equipment is becoming an important laboratory tool for every chemist.

www.futurechemistry.com

For more information please contact:

FutureChemistry Holding BV

Kaspar Koch

Managing Director

k.koch@futurechemistry.com

Tel. +31 (0) 24 711 4029 / +31 (0) 6 343 788 19