

Press release

Presse-Information • Information de presse

EFCE
c/o DECHEMA e.V.
Theodor-Heuss-Allee 25
D-60486 Frankfurt am Main
<http://www.efce.info>

7/2010

Reactor simulation takes EFCE prize

Contact:
Ines Honndorf
Tel. ++49 (0) 69 / 75 64 - 209
Fax ++49 (0) 69 / 75 64 - 299
email: honndorf@dechema.de

Dr. Maarten Sabbe, University of Gent, Belgium, has been awarded the 2010 EFCE Excellence Award in Chemical Reaction Engineering.

Sabbe won the award for his PhD thesis, *Ab initio based kinetic modelling for the simulation of industrial chemical processes*. His study presented a simulation of an industrial chemical reactor developed solely on thermodynamic and kinetic calculations based on quantum chemistry.

Prof. Marie-Françoise Reyniers, who supervised Sabbe's PhD project and nominated him for the award said that she was totally convinced that the work deserved the award and she said, "Maarten has proven to be capable of coping with the many challenges related to extrapolation from the molecular to the industrial scale."

Prof. Reyniers went on to say, "Maarten's steam cracking reactor simulations based on the group additive models consistently developed from first principles can certainly be viewed as a key contribution in the field of reaction engineering. The success of his simulation clearly shows that the integration of computational chemistry methods with engineering tools at larger time and length scales provides a predictive tool that can be used for the design and optimization of industrial chemical processes."

The award will be presented in August at the 7th European Congress of Chemical Engineering/CHISA in Prague, Czech Republic.

Notes to editors:

Founded in 1953, The European Federation of Chemical Engineering (EFCE) is a non profit making association, the object of which is to promote co-operation in Europe between non-profit-making professional scientific and technical societies in 30 countries for the general advancement of chemical engineering and as a means of furthering the development of the discipline.

The Federation's mission statement can be downloaded at
http://www.efce.info/efce_media/Bilder/Startseite/EFCE_Will-p-641.pdf

More information about Chemical Engineering at the University of Gent can be found at
<http://www.ugent.be/en/departments?ugentid=TW12>