

## Press release

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<http://www.efce.org>

### Simplified model for designing fragrances achieved



Research aimed at optimising the design of fragranced products has been recognised by the European Federation of Chemical Engineering (EFCE) with its Excellence Award in Product Design and Engineering.

Dr. Miguel André Abreu Teixeira, who completed his PhD at the Laboratory of Separation and Reaction Engineering at the University of Porto, Portugal, was presented the Excellence Award for his thesis titled: *'Perfume performance and classification: perfumery quaternary-quinary diagram (PQ2D<sup>®</sup>) and perfumery radar'*.

Dr. Teixeira, currently a Fragrance Insight Analyst at International Flavors & Fragrances in The Netherlands, developed a model that took the complex process of odour perception and simplified it into a model that uses basic physical properties.

The simplified model makes it much easier and quicker to predict the performance and smell of perfumed products compared to other methods. The fragrance industry could benefit from faster fragrance formulation, reduced consumption of raw materials and decreased product costs.

Dr. Teixeira's research was recognised for its scientific impact, innovation and industrial relevance to the fast-moving consumer goods (FMCG) industry by EFCE's Section on Product Design and Engineering.

His thesis resulted in series of experimental data, together with new methodologies, theoretical models and innovative tools that describe, assess, and quantify and predict the way consumers perceive odours and fragrance chemicals.

Dr. Teixeira was presented with the award, which comprised of a €1,500 cash prize and certificate, at the fifth European Symposium on Product Design and Engineering, which was held in conjunction with the tenth European Congress of Chemical Engineering (ECCE 10) in Nice, France in September 2015.

## Related links

[EFCE Media Centre](#)

[ECCE10 + ECAB3 + EPIC 5 joint congress](#)

[EFCE's Section on Product Design and Engineering](#)

[Extended Abstract - \*Perfume performance and classification: perfumery quaternary-quinary diagram \(PO2D®\) and perfumery radar\*](#)

## Notes to media:

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## About chemical engineers

Chemical, biochemical and process engineering is the application of science, maths and economics to the process of turning raw materials into everyday products. Professional chemical engineers design, construct and manage process operations all over the world. Oil and gas, pharmaceuticals, food and drink, synthetic fibres and clean drinking water are just some of the products where chemical engineering plays a central role.

## About EFCE

Founded in 1953, The European Federation of Chemical Engineering (EFCE) is a non-profit-making association, whose object 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 chemical engineering. See [www.efce.org](http://www.efce.org)