



Press release

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EFCE awards Process Safety Award

Dr Sofia Carnevali has been awarded the **EFCE Excellence Award in Process Safety** for her PhD thesis "*Unsteady aspects of sodium-water reactions: Application to water-cleaning of sodium-containing equipment*" completed at CEA and the University of Compiègne (UTC) in collaboration with INERIS institute, France.

Carnevali's thesis achieved the best evaluation by the jury in terms of breadth and depth of the study, scientific relevance, innovation and industrial impact and dissemination of the results. Her work focused on the sodium-water reaction, important in the design of fourth generation nuclear reactors – breeder reactors – which use molten sodium as the primary coolant of the reactor core, hence the work has significant relevance for the nuclear industry. The new experimental equipment shows innovative engineering thinking in design of laboratory equipment.

Carnevali obtained her Bachelor's and Master's degree in Energetic Engineering from Pisa University, Italy, a European Master of Science in Nuclear Engineering (EMSNE) from the European Nuclear Education Network Association, and her PhD in Energetic Nuclear Engineering. Currently, she holds a position at CEA, Paris, France.

The Award will be presented in Florence, Italy, on 14 May 2013 during the 14th Loss Prevention Symposium.

Editor's Notes

For further media information, interviews or supporting photography, please contact:

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Notes to editors:

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. 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