

Press release

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Kontogeorgis selected for the 2018 Distinguished Lecture in Thermodynamics

Professor Georgios M. Kontogeorgis of the Technical University of Denmark (DTU) has been named as the laureate of the 2018 Distinguished Lecture in Thermodynamics and Transport Properties.

The Federation's *Working Party on Thermodynamic and Transport Properties* nominated him for his outstanding contributions to the generation, application and dissemination of knowledge and the technical advancement of the field through industrial co-operation.



Georgios Kontogeorgis received a M.Sc. degree in Chemical Engineering (1991) from the Technical University of Athens and a PhD (1995) from the Technical University of Denmark (DTU). He is full professor in Chemical and Biochemical Engineering Thermodynamics at DTU since 2011, and he has an adjunct professorship at the Xian Jiaotong University, China. Since July 2014 he chairs the Center for Energy Resources Engineering (CERE-DTU) and, since 2017, he is the Leader of the KT Consortium, an industry-academia collaboration where members are provided networking opportunities and state-of-the-art methods and tools for chemical and biochemical engineering.

He is the vice-chairman of the Working Party on Thermodynamics and Transport Properties of the EFCE, and a member of the international steering committee of the European Symposium of Applied Thermodynamics - ESAT.

His research and teaching interests are in the fields of applied thermodynamics, environmental engineering, colloids & interfaces, product design and biotechnology. He has developed theoretical models with the capacity to correlate and predict physical equilibria in complex systems and has been successful in modelling complex compounds such as polymers, pharmaceuticals, electrolytes, surfactants, and supercritical fluids, as well as complex systems such as associating fluids. In particular, the development of the CPA (Cubic-Plus-Association) model has to be highlighted. It is a model able to address gaps of the traditional thermodynamic models, representing a powerful tool for industry. This model has been very useful in understanding how hydrogen bonding can be implemented in a rigorous thermodynamic framework originating from statistical mechanics.

It has been applied in the generation of knowledge directly related to industrial challenges, as in modelling gas processing, hydrates and biofuels production.

Professor Georgios Kontogeorgis has published 220 peer-reviewed articles in international journals and gave over 250 conference presentations and many plenary/keynote talks at universities and companies around the world.

He has supervised about 50 PhD students and post-doctoral researchers, several of whom have received significant awards. He is also the author of four books, several chapters in edited books and author of education publications. Prof. Kontogeorgis is associate editor of the Journal of Natural Gas Science and Engineering and editor of the journal Fluid Phase Equilibria. Moreover, he collaborates actively with researchers of all around the world.

Georgios Kontogeorgis has received several awards for his research including the Empirikion Award (Greece) in 1999 and the Dana Lim award (Denmark) in 2002.

On learning of his forthcoming recognition, Prof. Kontogeorgis said: "I am deeply honoured by this selection and grateful for this both to EFCE/WP and of course also to the selection committee."

Georgios Kontogeorgis will deliver the 2018 Distinguished Lecture in Thermodynamics and Transport Properties at the 30th Symposium on Applied Thermodynamics (ESAT) in Prague, Czech Republic. The conference takes place on 10-13 June 2018.

The award is kindly sponsored by IFP Energies nouvelles (IFPEN).



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Distinguished Lecture in Thermodynamics and Transport Properties
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30th European Symposium on Applied Thermodynamics - ESAT2018
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Notes to media:

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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

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- Providing solutions to take up the challenges facing society in terms of energy and climate, promoting the transition towards sustainable mobility and the emergence of a more diversified energy mix;
- Creating wealth and jobs by supporting French and European economic activity, and the competitiveness of related industrial sectors.

An integral part of IFPEN, its graduate engineering school – IFP School – prepares future generations to take up these challenges.