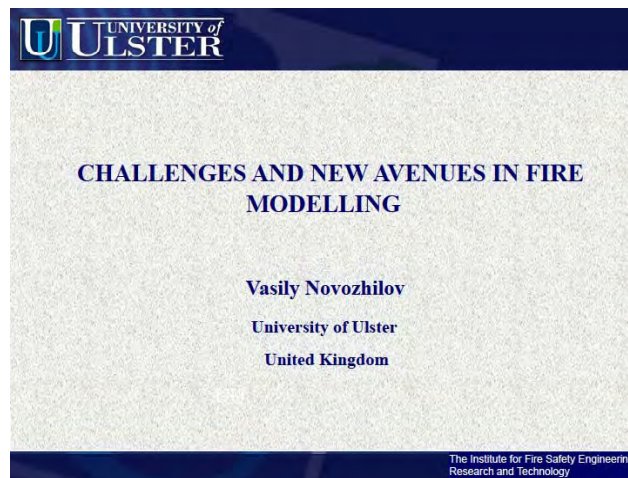


## **BSE Public CPD Lecture – Challenges and New Avenues in Fire Modelling on 12 December 2009**

Organized by the Department of Building Services Engineering, a public CPD lecture delivered by Professor Vasily Novozhilov on *Challenges and New Avenues in Fire Modelling* was held on 12 December 2009 (Saturday). About 22 participants attended this public CPD Lecture.



Professor Vasily Novozhilov is a Professor of Fire Dynamics at the University of Ulster. His main research interests include Computational Fluid Dynamics (in particular in application to Fire Dynamics and Suppression), Combustion and Heat Transfer.



CPD Public Lecture by Professor Novozhilov

Many areas of Computational Fluid Dynamics have shown significant and rapid progress in recent years. Despite this, comprehensive and reliable prediction of fires remains an unsolved problem. “Proper” prediction of fire behaviour is inaccessible by current theory and computer models. CFD issues associated with resolution of wide spectrum of scales, many obstacles to accurate prediction of fire evolution have their

roots in very complex chemical composition of burning materials. Difficulties are further aggravated in extended specific applications, such as fire suppression.

In the lecture, Professor Novozhilov gave a brief overview on several existing challenges in fire modeling, and outlined possible approaches to model improvements. In view of very recent interest in lattice Boltzmann approach, the potential of this method for fire modeling was also discussed.



Souvenir presentation to Professor Vasily Novozhilov by Professor W.K. Chow