



Society of Fire Protection Engineers
Hong Kong Chapter

INVITED SPEAKER

Professor John M. Dyke
Department of Chemistry
University of Southampton

Date

30 April 2010 (Fri)

Time

6.30 – 9.30 pm

Venue

**Room TU107
The Hong Kong Polytechnic University**

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**[Ref: Laboratory Experimental Techniques relevant
to Combustion Chemistry]**

- Free Admission -

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* Please delete as appropriate



THE HONG KONG
POLYTECHNIC UNIVERSITY



[C P D L E C T U R E]

**Laboratory Experimental
Techniques relevant to
Combustion Chemistry**

ORGANIZED BY

Professor W.K. Chow

Director, Research Centre for Fire Engineering
Head of Department, Department of Building Services
Engineering
Leader, Area of Strength: Fire Safety Engineering
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ABSTRACT

In this lecture the basic chemistry of flames will be summarised, emphasizing the importance of reactive intermediates. Then a review will be given of current experimental techniques used to sample flames with the aim of monitoring reactants and products, as well as reactive intermediates in real time with spatial resolution in the flame.

PROGRAM SCHEDULE

6.30 – 6.45 pm◆ Registration

6.45 – 7.45 pm◆ **Part I: Basic principles of Combustion and Laser Based Measurement Methods**

7.45 – 8.15 pm◆ Coffee break

8.15 – 9.15 pm◆ **Part II: Flame Sampling, Discharge Flow Methods and Shock Tubes**

9.15 – 9.30 pm◆ Questions and answers

SPEAKER

Professor John M. Dyke was an undergraduate at University College Wales Cardiff, and graduated with a first class honours degree in 1967. He won the Isaac Roberts Award for the best science student in the University of Wales in 1966 and 1967.

He studied for a PhD under the supervision of Dr Noel Hush in Bristol University and completed the PhD in 1971. The topic of this research was the study of electron transfer reactions with spectroscopic methods. He then worked as a research chemist for Ciba-Geigy working on the development of a new colour process and film.

In 1973 he was appointed as a post-doctoral fellow with Professor Neville Jonathan at Southampton University. In 1977 he was appointed as a lecturer in Physical Chemistry at Southampton and in 1988 he was appointed to a Chair in Physical Chemistry.

He is an expert on the electronic structure and reactivity of reactive intermediates in the gas-phase. He is a visiting Professor at Hong Kong and Herbei Universities. He is a member of the editorial board of the Journal of Electron Spectroscopy and a member of the project assessment panel at the Elettra synchrotron (Trieste). He is Chairman and Principal Investigator of the EPSRC National Service in Computational Chemistry.