



## 学术报告

### Electrochemical promotion of catalysis (EPOC): could it help to solve some environmental problems?

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报告地点: 航天催化楼3楼会议室

报告时间: 2007年6月28日下午3:30

#### 报告人简介:

François Gaillard was born in Lyon, France, 1956

After obtaining his degrees and PhD in materials science (University of Lyon, France) he joined the CNRS (French Centre for Fundamental Research) as a research scientist in 1983.

He obtained his second thesis (1987) in adhesion and surface science

In 2004 he was appointed senior research scientist and directed the catalysis team of the environmental chemistry laboratory in University of Lyon.

In 2007, he became head of the surface and interface team of the newly created institute of researches on catalysis and environment of Lyon.

François Gaillard published about 90 papers in the fields of :

- ?Environmental heterogeneous catalysis
- ?Electrochemical promotion of catalysis
- ?Surface analysis (FTIR, XPS, ISS, x-ray emission ?
- ?Surface modification
- ?Adsorption/desorption (TPD, TPR, TPSR ?

#### 报告摘要:

The possibility to change catalytic activity and/or selectivity by applying a small voltage or current to a catalyst/electrode system interfaced to a solid electrolyte was discovered about 15 years ago by Prof. C.G.Vayenas (University of Patras, Greece). This technique was first named 掇on Faradaic Modification of Catalytic Activity?(NEMCA) and is nowadays more widely known as 掇lectrochemical Promotion of Catalysis?(EPOC).

This new approach opens very stimulating routes to environmental catalysis.

The aim of this presentation is to show some recent works on EPOC, carried out at the University of Lyon, dealing with environmental problems such as VOC掇 elimination, NOx abatement, hydrocarbons catalytic combustion ?/span>

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