

PUBLIC LECTURE ANNOUNCEMENT

**MINERALS, METALS & MATERIALS TECHNOLOGY CENTRE AND
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TOPIC	Quantitative Property-Activity Relationship (QPAR) of PtRu/C for Methanol Oxidation
SPEAKER	Professor. Lu Juntao (Department of Chemistry, Wuhan University, PR.China)
HOST	Professor. Lu Li (Department of Mechanical Engineering, NUS)
DATE	29 AUGUST 2008 (FRIDAY)
TIME	9.30 AM TO 10.30AM
VENUE	E5-02-32

ABSTRACT	<p>In this presentation, the importance of quantitative property-activity relationship (QPAR) in catalyst studies will be first discussed in general, followed by QPAR results of PtRu/C, a most widely used and intensively studied catalyst for direct methanol fuel cells. Based on a data base consisting 75 catalyst samples, a linear QPAR equation was established to correlating surface specific activity with two property descriptors. This QPAR equation can be used to predicate and diagnose catalysts; a few catalyst design hints deduced from this QPAR were supported by experiments.</p>
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BIOGRAPHY	<p>Prof. Lu Juntao Graduated from the Department of Chemistry, Wuhan University, Wuhan China, in 1963 and has been worked there since. He stayed with Dr. E. Yeager at the Case Western Reserve University, US, as visiting scholar 1981-83 and spent a half year in 1989 with Dr. A. Bewick in Southampton University, UK, as senior visiting researcher. He served as director of the Electrochemical Laboratory at Wuhan University for over 10 years. He also served as co-Chairmen of the Chinese Society of Electrochemistry (2003-2007) and Referee Committee member of the National Natural Science Foundation of China. His research interesting includes electrocatalysis, fuel cell, batteries, electrochemical sensors and spectroscopic electrochemistry.</p>
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ALL ARE WELCOME, ADMISSION IS FREE

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