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THE IEE CLERK MAXWELL LECTURE 2006

# WHERE BE THE DRAGONS?

LECTURE BY STEWART SAUNDERS, CHINA LIGHT & POWER CO. LTD AND DR PETER TERWIESCH, ABB LTD

THE IEE CLERK MAXWELL LECTURE AND DINNER 2006
WHERE BE THE DRAGONS?
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## KEY BENEFITS

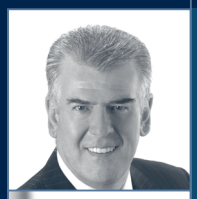
Issues to be addressed during the lecture will include:

- An overview of the power industry in China and an analysis of the current electricity business environment.
- A look into the opportunities, challenges and future trends in China.
- An analysis of the differences and commonalities of Asian and European power challenges from a business and technology perspective.
- Connections between the perspectives and an outlook into the future.

THE IEE
SAVOY PLACE
LONDON
UK

THURSDAY 2 FEBRUARY 2006

REFRESHMENTS FROM 18.00
LECTURE COMMENCES 18.30



Keynote Speakers:

Stewart Saunders,
China Light & Power Co. Ltd

Dr Peter Terwiesch,
ABB Ltd

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## A BRIEF HISTORY OF THE CLERK MAXWELL LECTURE

The Clerk Maxwell Lecture commemorates the life and work of the Scottish physicist, James Clerk Maxwell, 1831 to 1879. Maxwell's first major contribution to science was a study of the planet Saturn's rings, the nature of which was much debated. He next considered molecules of gases in rapid motion, formulating the Maxwell-Boltzmann kinetic theory of gases. His most important achievement was his extension and mathematical formulation of Michael Faraday's theories of electricity and magnetic lines of force. In his research, conducted between 1864 and 1873, Maxwell showed that a few relatively simple mathematical equations could express the behaviour of electric and magnetic fields and their interrelated nature; that is, an oscillating electric charge produces an electromagnetic field. These four partial differential equations first appeared in fully developed form in Electricity and Magnetism in 1873. Since known as Maxwell's Equations, they are one of the great achievements of 19th century physics.

## SYNOPSIS

Where be the Dragons? – An authoritative review by Stewart Saunders of the stunning pace of power industry developments in China and the business opportunities and challenges in this market, combined with a challenging assessment by Peter Terwiesch of the opportunities for the European power industry that are arising as a consequence of this development in China.

The lecture will include:

- An overview of the power industry in China and an analysis of the current electricity business environment.
- A look into the opportunities, challenges and future trends in China.
- An analysis of the differences and commonalities of Asian and European power challenges from a business and technology perspective.
- Connections between the perspectives and an outlook into the future.

## BIOGRAPHIES

STEWART SAUNDERS

Stewart Saunders is responsible for Generation, Transmission, Distribution, Marketing and Customer Services Operations in CLP Power Hong Kong Limited and is Chairman and Executive Director of CLP Engineering Limited.
He began his career in the power sector in 1960 when he joined the South of Scotland Electricity Board. During his service with the SSEB and its successor company ScottishPower, he held a number of posts in Engineering and Customer Service, including senior management positions of General Manager, Distribution Operations, Customer Services Manager, and Head of Marketing.
He was seconded from ScottishPower to CLP Power in March 1997 to lead the restructuring of the Transmission and Distribution & Customer Services Business Groups and became General Manager of Power Systems in September of that year. He served as such until he returned to the UK in August 1999. Prior to assuming the current position in June 2002, Stewart was Managing Director of Manweb, then Corporate Regional Director of ScottishPower and also Chief Executive Officer of Selectusonline.com, a purchasing joint venture between the Electricity Supply Board of Ireland, Northern Electric and Gas, ScottishPower and United Utilities.
He was awarded the MBE for his services to the Electricity Industry in the UK in the 2002 New Year's Honours List.

DR. PETER TERWIESCH

Dr. Peter Terwiesch is the Chief Technology Officer for the ABB Group since July 1st 2005.

His prior experience includes both business and technology positions in ABB. Most recently, he was President of ABB Automation GmbH, Germany, heading ABB's German process automation business, following a similar responsibility in Switzerland. In parallel to direct business responsibility, he has been Chief Technology Officer for ABB's $11bn global Automation Technologies division. Earlier, he headed ABB's Corporate Research Center in Baden, Switzerland, one of ABB's eight global research labs, and held other management and specialist positions at ABB Corporate Research in Switzerland and Germany. Dr. Terwiesch received his Ph.D. (Dr. sc. techn.) from ETH Zurich, Switzerland, and his diploma (Dipl.-Ing.) from Karlsruhe University, Germany, and is based in Zurich, Switzerland.

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