



EXCLUSIVE TWO-DAY EXECUTIVE EDUCATION PROGRAMME WITH PROFESSOR PAUL STEVENS

THE UNCONVENTIONAL GAS REVOLUTION AND AUSTRALIA THREATS AND OPPORTUNITIES

17 - 18 October 2013, Perth WA

ABOUT THE PROGRAMME

The “shale gas revolution” in the United States is already transforming global gas markets. It is also likely to prove a major game changer for gas and oil markets in Asia, not least because of its possible impact on the global production of liquid hydrocarbons and the implications for United States “energy independence”.

This executive training programme seeks to explore the implications of the development of unconventional gas and its technology. In particular it will examine the global implications including the possible implications of large-scale LNG exports from the United States in the context of Australia’s current plans for LNG. It will also consider the geo-political implications of possible changes in international oil and gas trade patterns, as Asia increasingly becomes the source of global oil and gas demand growth.

The programme will also consider the geological and environmental context of a possible shale and unconventional gas revolution in Australia and what policies might be put in place at both Federal and State level if shale gas is to become a major factor in the future Australian energy mix.

WHO SHOULD ATTEND?

This intensive course is designed for those in middle to senior management in energy/resource companies, energy consultants, energy policy makers or those who simply want a detailed knowledge of the underlying threats and opportunities for Australia in context of the US Shale Revolution.

PROGRAMME LEADERS

Prof Paul Stevens, BA (Hons), MA, PhD.

Professor, International Energy Policy Institute, UCL Australia and Distinguished Research Fellow (Energy), The Royal Institute of International Affairs (Chatham House), UK.

Prof Christine Trenorden, B Juris, LLB, GDLP, MPIA (Hon Fellow).
Visiting Professor of Law, UCL Australia.

Prof Peter McCabe, BSc, PhD.

Professor of Applied Sedimentology & Director, QUT Centre for Unconventional Resources.

BENEFITS FOR ME AND MY ORGANISATION

Programme participants will be issued a UCL Executive Education Certificate on completion of this programme. Additional benefits include:

- You will have access and be taught by world leading experts on different subject areas.
- Your education will be grounded by latest insights and best practices from around the world. You will return with the latest knowledge for achieving your company’s goals—and your career objectives.
- UCL Faculty members teach every course. Drawing on industry expertise and research, they will engage you in an unparalleled learning experience.
- Invitation to participate in presentations and seminars on cutting-edge topics and issues.

THE STRUCTURE

DAY 1: 17 October 2013, 9am – 5pm

THE GLOBAL ENERGY CONTEXT

- Asian energy demand and future trade patterns.
- A golden age of gas?
- The end of “peak oil”.
- Prospects for oil and gas prices.

THE SHALE REVOLUTION IN THE UNITED STATES

- What is it in terms of gas and oil?
- Shale technologies.
- Why did the revolution happen in the US?
- What has the impact been?
- On North America.
- On global gas markets.
- Can it continue in North America?

THE SHALE REVOLUTION ELSEWHERE

- What is the potential?
- What are the barriers?

DAY 2: 18 October 2013, 9am – 3pm

THE SHALE REVOLUTION IN AUSTRALIA

- Potential resources and the geology.
- The legal and environmental policy issues.
- Other barriers.
- Policy implications.

THE GLOBAL ISSUES

- LNG into Asia and Asian Gas markets.
- United States and “Energy Independence”.
- Gas pricing.

PARTICIPANTS' REQUESTS

- Additional topics or detail based on participant requests, time permitting.

THE FORMAT

The course is designed to be interactive with a mixture of lectures and seminar-type discussions.

LOCATION

Santos Ltd.
Wesfarmers House
Level 1, 40 The Esplanade
Perth WA 6805

FEES

AUD \$3,400 per participant (incl. GST). This fee includes all tuition, educational materials and refreshments on each day. Travel and accommodation costs are not included.

Discounts apply for company bookings of three or more staff.

FOR MORE INFORMATION & REGISTRATION

www.ucl.ac.uk/australia/study/executive_education/shale-course

ABOUT UNIVERSITY COLLEGE LONDON (UCL)



UCL was established in 1826 to open up education in England for the first time to students of any race, class or religion. UCL was also the first university to welcome female students on equal terms with men.

Today, UCL is one of the foremost academic institutions in the world. The University is an academic powerhouse, currently ranked fourth in the QS World University Rankings 2012, with no fewer than 21 Nobel Prize winners within our community.

UCL operates in a global context and is committed to excellence, innovation, and the promotion of global understanding. The same spirit of radical idealism has been at the heart of UCL since the university was founded.

Notable alumni of UCL include:

- Alexander Graham Bell – inventor of the telephone.
- Mahatma Gandhi, leader of the Indian Independence Movement.
- Marie Stopes, an author, campaigner for women's rights and pioneer in the field of family planning.
- Former heads of state of Japan, Israel and Kenya.
- Former Chief Justices of England, Hong Kong and India.

UCL AUSTRALIA

In 2010, UCL opened its first international campus outside of the UK in Adelaide, South Australia. UCL Australia includes:

- UCL School of Energy and Resources, Australia
- International Energy and Policy Institute (IEPE)
- Mullard Space Science Laboratory (Australia).

UCL Australia provides a novel, tangible and globally relevant learning experience, drawing upon world leading academic and researchers in the areas of energy and resources, energy policy and space science.

All courses offered at UCL Australia are post graduate.

EXECUTIVE EDUCATION

In the words of Alexander Graham Bell:

***“Before anything else,
preparation is the key to success”***

UCL Australia is committed to the principles of life-long learning. Executive Education programmes are aimed at providing industry professionals with access to world leading education and research, so they can best prepare to meet the significant complexities and challenges of today and the future.

As a top-ranked University, we attract the world's leading faculty and experts. They bring to this programme insight from their real-world experience, and their cutting-edge knowledge on current issues.

PROFESSOR PAUL STEVENS



Paul Stevens is a Professor at UCL International Energy Policy Institute (IEPI) and a Distinguished Research Fellow (Energy) at Chatham House (The Royal Institute of International Affairs) in London.

Educated as an economist and as a specialist on the Middle East at Cambridge and the School of Oriental and African Studies; 1973-1979 teaching at the American University of Beirut in Lebanon interspersed with two years as an oil consultant; 1979-93 at the University of Surrey. Between 1993 and 2008, he was Professor of Petroleum Policy and Economics at the Centre for Energy, Petroleum and Mineral Law and Policy, University of Dundee, Scotland, a chair created by BP. He is also Professor Emeritus at the University of Dundee.

Professor Stevens has published extensively on energy economics, the international petroleum industry, economic development issues and the political economy of the Gulf.

He also works as a consultant for many companies and governments. In March 2009 he was presented with the OPEC Award in recognition of his outstanding work in the field of oil and energy research.

PROFESSOR CHRISTINE TRENORDEN



Christine Trenorden is a Visiting Professor at UCL. She was formerly the Senior Judge of the South Australian Environment, Resources and Development following appointment to the District Court in 1993 after a number of years as a barrister and solicitor.

Most recently Christine has been working with the laws of a number of Pacific Island countries in relation to sustainable development, climate change and natural resources management.

Christine has a B Juris and LLB (University of Western Australia) and is an Hon Fellow of the Planning Institute of Australia and a Life Member of the National Environmental Law Association (Australia).

PROFESSOR PETER McCABE



Peter McCabe is a Professor of Applied Sedimentology at the Queensland University of Technology and Director of the QUT Centre for Unconventional Resources. He has a proven track record in engaging with the fossil fuel industry both nationally and internationally. He has an extensive knowledge of global coal, oil and natural gas resources and the relevant science and technologies for exploration, development and environmental protection.

Peter is recognized as an expert in fossil fuel resources, clastic sedimentology, sequence stratigraphy and basin development. He has a strong publication record of highly cited papers. His commitment to the geosciences is indicated by his major service to the profession, having served President of the American Geological Institute and the Society of Sedimentary Geology.