

THE CHEMICAL ENGINEERING PROGRAM CORDIALLY INVITES YOU TO

2nd Doha Engineering & Technology Forum

Industrial Energy Efficiency and Greenhouse Gas Emissions

Sunday, 15 March 2009
9:00 – 16:00
Lecture Hall 238
Texas A&M Building, Education City

The 4th and most recent IPCC assessment indicates that climate change is unequivocal and that without mitigation, average global temperatures may increase by 2-6C by 2100. As a result, most major economies have announced targets for reductions in Greenhouse Gas (GHG) emissions and the development of a low-carbon industrial strategy. Targets such as 80% reductions in GHG emissions by 2050 are being discussed.

The industrial, power generation and water desalination base in Qatar is energy intensive and emits significant amounts of GHGs. Multiple measures will have to be implemented in the future in order to utilize energy more efficiently and reduce GHG emissions. Texas A&M University at Qatar presents a one-day seminar aimed at senior management and technologists that provides an overview of issues, technologies and applications in order to improve industrial energy efficiency and reduce GHG emissions.

Keynote speaker (1) – Professor Robin Smith

Dr. Smith is Director of the Centre for Process Integration of the University of Manchester. He is also managing Director of Process Integration Limited. He has extensive industrial experience with Rohm & Haas and with ICI and he has acted extensively as a consultant industry in process integration projects. He is the author of "Chemical Process Design and Integration" published by Wiley, a Fellow of the Royal Academy of Engineering, a Fellow of the Institution of Chemical Engineers in the UK and a Chartered Engineer.

Keynote speaker (2) – Professor Jon Gibbins

Dr. Gibbins leads the Energy Technology for Sustainable Development Group at Imperial College London. He is the Principal Investigator for the UK Carbon Capture and Storage Consortium (CCSC) and is also involved in a number of other academic, industrial and government projects on CCS in the UK and overseas, including membership of Member of the UK Department for Business, Enterprise and Regulatory Reform (BERR) Advisory Committee on Carbon Abatement Technology.

Program

09:00 – 09:15	Registration
09:15 – 09:30	Welcome and Introduction
09:30 – 10:15	Keynote Lecture 1: Energy Reduction Through Process Integration: Best Practice and Future Trends <i>Professor Robin Smith</i> <i>University of Manchester, U.K.</i>
10:15 – 11:00	Keynote Lecture 2: Carbon Capture and Storage: Technologies and Applications <i>Professor Jon Gibbins</i> <i>Imperial College London, U.K.</i>
11:00 – 11:30	Coffee
11:30 – 12:00	Bio-Gasoline: Sustainable Use of Fossil Fuels <i>Prof. Mark Holtzapple, TAMU, U.S.A.</i>
12:00 – 12:30	Process Integration for the Efficient Use of Energy <i>Prof. Mahmoud El-Halwagi, TAMU, U.S.A.</i>
12:30 – 13:45	Lunch
13:45 – 14:15	Advanced vapor-compression desalination technology <i>Prof. Mark Holtzapple, TAMU, U.S.A.</i>
14:15 – 14:45	Opportunities for Energy Systems Integration <i>Prof. Patrick Linke, TAMUQ, Qatar</i>
14:45 – 15:15	Round table discussion and closing remarks
15:15 – 16:00	Coffee and networking

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