

DAY 1 Monday 15th July

0845 Coffee

0900 Welcome and Introduction

Chair: **Dr Dick Fenner****Miscellaneous**

0905 Dinesh Kapur Sustainability in sports: definitions, impacts legacy and the need for a methodology Peter Guthrie

0930 Kaihao Wang Sustainability study on underground space for NTU campus Peter Guthrie

0955 Haitao He Plastic waste recycling model Peter Guthrie

1020 Adam Burke Construction feasibility and impact assessment of multi-purpose artificial reefs Heather Cruickshank

1045 Coffee**Sustainable Housing**

1115 Milan Bruncvik Comparative study of resource efficiency of shipping containers based homes Michael Ramage

1140 Caroline Brown Design options and feasibility of providing transitional housing to South Africans Michael Ramage

1205 Antonia Hart Traditional vs new buildings for Barbados Koen Steemers

1230 Ji Young Park Assessment of Four Rivers project in South Korea, implications towards sustainability Heather Cruickshank

1255 LunchChair: **Dr Heather Cruickshank****Water land energy nexus**

1400 Ozioma Uzoegwu Agent based model for flood incident management in the Canvey island Mike Bithell

1425 Ana Castenada Meeting the needs of water management in Mexico with pre-Hispanic cultures practices Heather Cruickshank

1450 Nick Copeland Energy, Water, and Land Use in Texas Dick Fenner

1515 Randa Fahmy A water energy agriculture nexus approach for desert agriculture in the middle east Doug Crawford Brown

1540 Tea**Climate change and decarbonisation**

1600 Brett Ormrod The viability of Nuclear power as a decarbonisation strategy for South Africa's CC agenda Doug Crawford Brown

1625 Grecia Rodriguez Adapting to the effect of climate change and demand shift on the UK's decarbonised energy system: Doug Crawford Brown

1650 Pankaj Arora Behaviour and policy, Transport in India Doug Crawford Brown

1715 Dev Tayal Designing Sustainable Cities - urban transport innovations for a decarbonised energy strategy Doug Crawford Brown

1740 Closing Remarks

1745 Close

DAY 2 Tuesday 16th July

0845 Coffee

0900 Welcome and Introduction

Chair: **Dr Heather Cruickshank****Green Infrastructure**

0905 Jonathan Ho Critical review and analysis of halophilic bacteria on modern water infrastructures Geoff Parker

0930 Kyle Maggard Green infrastructure for Sustainable Urban Water Management Dick Fenner

0955 Nadia Salleh The value of green infrastructure in Putrajaya, Malaysia Dick Fenner

1020 Dana Boyer Vegetation in buildings: greenery to address psychological and social wellbeing in sustainable building design. Peter Guthrie

1045 Coffee

Air pollution / Airports / Transport

1115 Andres Assar A framework for air pollution and its consequences in Chile Peter Guthrie

1140 Xiangyu Sheng Achieving sustainable urbanisation air pollution from airports Peter Guthrie

1205 Tzu Ting Hsia The assessment of the Heathrow third runway and alternatives Peter Guthrie

1230 Yuan Leng Achieving sustainable transport in Australia Dick Fenner

1255 LunchChair: **Professor Peter Guthrie****Education, policy and economics**

1400 Soo Seng lee Sustainability and Environmental Teaching Material Development for Educational Purpose Dick Fenner

1425 Randolph Brazier How education can be used to improve sustainability knowledge and thinking among teenagers Heather Cruickshank

1450 Faran Mahmood Behavioural implications of Policy Instruments on Triple Bottom Line Business Sustainability Heather Cruickshank

1515 Jimena Alvarez The economics of Climate Change Chris Hope

1540 Tea**Energy**

1600 Craig Henderson Sustainability in Australian Pipeline design Dick Fenner

1625 William Hudson Optimising Returns from Ground Source Heat Pump Technology potential markets Heather Cruickshank

1650 Supharat Ridthichai Enablers and barriers to the adoption of renewable energy technologies for power generation Simon Ford

1715 Maria Kotsareli Retrofit technologies and strategies for enhancing the energy performance of buildings in Greece Heather Cruickshank

1740 Closing Remarks

1745 Close

MPhil in Engineering for Sustainable Development

Dissertation Presentations (15th –17th July, 2013)

Lecture Room 0: Baker Building, Department of Engineering; Trumpington Street

DAY 3 Wednesday 17th July

0845 Coffee

0900 Welcome and Introduction

Chair: **Professor Peter Guthrie**

Energy in Development Engineering

0905 Gerard Casey Afghanistan: Repatriation and Resettlement Heather Cruickshank

0930 Joanis Holzigel A study of consumer involvement in off-grid rural electrification in Sub-Saharan Africa Heather Cruickshank

0955 Abishek Jain Decision Analysis Framework to Assist Decentralized Electrification in Rural India. Paul Kattuman

1020 Timothy Kotin Sustainable energy for Reandevour's Appolonia and King City projects in Ghana Heather Cruickshank

1045 Coffee

Developing countries

1115 Greg Felter Water Supply Challenges in Cities as a Result of Urbanization Heather Cruickshank

1140 Brittany Coff Evaluating the effectiveness and sustainability of NGO activities: A case study in Zambia Dick Fenner

1205 Thomas Ratsakatika Alleviating global poverty through sustainable social enterprise Heather Cruickshank

1230 Mariam Malik Disaster management in Pakistan: sustainability through resilience Heather Cruickshank

1255 Lunch

Chair: **Dr Dick Fenner**

Sustainability in industrial sectors

1400 William Usher Assessing the needs for sustainability in the strategic planning for mining companies Julian Allwood/ Liz Curmi

1425 Walter Scheel Renewable thermal energy: opportunities and barriers for the manufacturing industry in the UK Jon Cullen/ Julian Allwood

1450 Khangzhen Leow Low carbon water industry in Singapore Peter Guthrie

1515 Zhoujian Li Feasibility and evaluation and improvement methods of wind power in China Peter Guthrie

1540 **Tea**

Buildings and Energy

1600 Chris McClurg Bridging the gap between the design and delivery of sustainable buildings. Peter Guthrie

1650 Prince Ogbonna Energy modelling of high-rise office complex in Lagos, Nigeria Peter Guthrie

1650 Tiffany Chow Maintaining Energy Security in the United Kingdom Through Electricity Market Reform Peter Guthrie

1715 Closing Remarks

1745 Close