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Academic excellence for business and the professions

Systems and Control Research Centre
School of Mathematics, Computer Science &
Engineering (SMCSE)

31st March 2015

Engineering Sustainable Systems

Second Public Seminar

The disciplines of Sustainability and Systems Engineering have much to offer each other. Sustainability science shapes the sustainability agenda, informing policies and frameworks to set the goals and objectives to enable a sustainable future. Systems engineering provides methods and approaches for balancing conflicting stakeholder requirements and ensuring that solutions are built the right way to satisfy the right needs, where sustainability objectives are one of many drivers. Sustainability Engineering provides proven techniques for managing the development of technologies to enable desired emergent behaviour from complex systems (and systems-of-systems) and what could be desirable than saving the planet.

This is the second in a series of seminars addressing the principles and practices relating to sustainability in soft and hard systems. We believe this is a rich and fertile landscape scientifically, socially and technically and welcome participation and contribution to the programme.

- 1. Sustainability Assurance, Principles and Frameworks**
- 2. The Case for Engineering Sustainable Systems**
- 3. The Systems Engineering Practice for Sustainability**
- 4. Guidelines, Codes, Standards and Metrics for Sustainable Systems**
- 5. Knowledge, Understanding & Competence in SE & Sustainability**
- 6. Case Studies of Sustainable Engineered Systems & other Industries**



Systems, Man,
& Cybernetics
Society

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Engineering Sustainable Systems

Second Public Seminar – 31st March 2015

Venue: Northampton Suite A & B, City University London
Northampton Square, London EC1V 0HB

Programme

	Registration	13:00 – 13:30	
	Welcome	13:30 – 13:45	
1	Sustainability Assurance, Principles and Frameworks	13:45 – 14:15	Prof. N Karcaniias (Systems & Control, City University London) Prof A Hessami (Vega Systems, Systems & Control)
2	The Case for Engineering Sustainable Systems	14:15 – 14:45	Prof. M Sodhi (Cass Business School, City University London)
3	The Systems Engineering Practice for Sustainability	14:45 – 15:15	Richard Beasley (Global Chief of Systems Engineering, Rolls-Royce)
4	Guidelines, Codes, Standards and Metrics for Sustainable Systems	15:15 – 15:45	Prof. M Newby (Systems & Control, City University London)
	Coffee Break	15:45 – 16:15	
5	Knowledge, Understanding & Competence in SE & Sustainability	16:15 – 16:45	Prof. A Duffy (Engineering, Strathclyde University)
6	Case Studies of Sustainable Engineered Systems & other Industries	16:45 – 17:15	Prof. I Ieropoulos (Bristol Bio-Energy Centre)
7	Round Table Discussion & Way Forward	17:15 – 18:30	
	Refreshments & Networking		



INCOSE: www.incoseonline.org.uk



Systems & Control (City University London):
www.city.ac.uk/departments/electrical-electronic-engineering/systems-and-control-centre



IEEE SMC: http://ieee-ukandireland.org/systems_man_and_cybernetics_chapter

Further information and registration via:
www.city.ac.uk/events/2015/march/engineering-sustainable-systems

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