



UK-Japan Workshop on Industrial Sustainability

Prof Mike Gregory

22nd July 2011
The Institute of Materials, Minerals & Mining
One Carlton House Terrace





Outline

- Background to the visit
- Aims
- Outline of study tour
- Today's agenda
- What next?





Origins of the Study Visit

- Symposium 2-3 June 2010
 - Green manufacturing
 - Eco-innovation





- Selected topics
 - Sustainability challenge
 - Skills & systems thinking
 - Society & assessment
 - Japanese excellence in efficiency







Suggested Actions



- Highlight case studies in best practice
- Academics to act as champions and advisors
- Involve young people in the response to the sustainability challenge
- Identify opportunities for mutual learning & collaboration









UK-Japan Industrial Sustainability Study Visit & Workshop

Accelerating the contribution of education and research

Prof Mike Gregory

Dr Jaqi Lee

Prof Steve Evans

Dr Derek Gillespie

Prof Shahin Rahimifard

Dr Tim Short

Dr Dai Morgan







Industrial Sustainability



- Rapidly growing awareness of importance
- Complements focus on environment & energy
- Reflects a 'systems' view of industry
- Japan identified as home of much good practice
- EPSRC willing to support study visit







Aims



- Share experience and expertise in the field of education and research toward industrial sustainability.
- Identify current education and research best practices and industrial needs.
- Identify opportunities for collaborative projects between UK and Japan.







The Team!



- Prof Steve Evans Cranfield
 - Design, Production, Life Cycle Engineering
- Dr Derek Gillespie EPSRC
 - Research structures and programme desigh
- Prof Sir Mike Gregory Cambridge
 - Manufacturing Systems
- Dr Jaqi Lee Surrey
 - Environmental strategy
- Dr Dai Morgan Cambridge
 - Sustainable production
- Prof Shahin Rahimifard Loughborough
 - Sustainable Manufacturing Systems
- Dr Tim Short Liverpool
 - Engineering Design







Approach



Workshop to:

- meet leading Japanese academics
- share expertise and interests
- Identify areas for collaboration

Visits to:

- understand research context
- observe key institutions







Workshop



- Presentations
- Breakout groups
- Collection & discussion
- Final Report

- Engineering Academy of Japan
- Hosei University
- Osaka University
- The University of Tokyo
- Kobe University
- Keio University
- National Institute of Advanced Industrial Science and Technology (AIST)
- Institute for Global Environmental Strategies
- Shinshu University







Visits



- Japan Science and Technology Agency (JST)
- Waseda University
- Institute for Global Environmental Strategies (IGES
- Keio University, Graduate School of System Design and Management
- Institute of Industrial Science (IIS), University of Tokyo,





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Agenda

Time	Activity	
0915	Registration Opens	
0945	Introduction to Workshop	Prof Sir Mike Gregory
0955	Industrial Sustainability and Japan	Prof Steve Evans
1015	Panel Q&A, Workshop Briefing	UK Study Team
1030	Break & Poster Session	
1045	Workshop Breakout Groups	UK Study Team
1145	Feedback from Workshop Groups	Group Leaders
1200	Introduction to EPSRC Centre for	Prof Steve Evans
	Innovative Manufacturing in Industrial	
	Sustainability	
1220	Next Steps & Actions	Prof Sir Mike Gregory
1230	Lunch	
1300	Close	







Next steps



- www.ifm.eng.cam.ac.uk/sis/Japan
 - Today's presentations
 - Pdf of report
 - Links to groups and institutions
- Workshop report
 - Circulated for comment
 - Shared with Japanese colleagues
- Development of specific collaborations



