

# **Professor John Perkins' Review of Engineering Skills**

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**Responding to the call to action:** work of the Task and Finish Groups

July, 2014

# Overview of Task and Finish Groups

## Groups

- Experiencing Engineering in Schools
- Cutting Edge Skills in Further Education
- Employer Engagement in Higher Education
- Specialist Skills (postgraduate)

## Anticipated Outputs

- **Business Cases** for Industry Engagement with all Stages of Education
- **Guide Notes and Best Practice** Examples for Various Types of Engagement
- **Dissemination Models** to Share Above Information and Bring Industry and Academia Together
  - Includes testing / piloting which organisations need to act as the 'hub' of engagement / sustain engagement post the Task & Finish Groups

## Experiencing Engineering in Schools

**Chair: Steve Holliday**  
FREng

### Group members

Yvonne Baker, *NSLC*  
Kirsten Bodley, *STEMNET*  
Ian Duffy, *BP*  
Anne Evans, *HTI*  
Peter Finegold, *IMechE*  
Annette Frances  
John Halton, *EngineeringUK*  
Gareth James, *IET*  
Mike Jones, *Siemens*  
Jo Lopes, *JLR*  
Tony Moloney, *National Grid*  
Craig Naylor, *NTR Ltd*  
Cheryl Phillips, *DATA*  
John Puddy, *BAE Systems*  
Gemma Taylor, *NSLC*  
Gary Vanstone, *Stone Ventures*  
Jim Wade, *JCB Academy*  
Karen Willcocks, *BIS*  
Susannah Wiltshire, *BIS*

## Cutting Edge Skills in Further Education

**Chair: Carol Burke**  
FREng

### Group members

Kate Bellingham  
Jenifer Burden, *Gatsby Foundation*  
Jennie Chapman, *EDF Energy*  
K Dale  
SandyDavid, *Lockheed Martin*  
Ken Gellion  
Gary Groom, *Redcar & Cleveland College*  
Richard Hamer, *BAE Systems*  
Henriette Harnisch, *Walsall College*  
Mark Kaczmarek  
Mark Maudsley  
Fiona McMillan, *ETF*  
Adrian Miller, *Wootton Upper School*  
Bob Millington, *NFEC*  
Ian Minton, *Career Academies*  
Ian Nichol, *Career Academies*  
Ralph Saelzer, *Liebherr UK*  
David Sandy, *LMCO*  
Jon Shaw, *Bombardier*  
Andrew Stanley, *ICE*  
M Tattersall  
Alistair Taylor, *IAGRE*  
Steve Wadey, *MBDA*  
Jenny Williams, *ETF*

## Employer Engagement in HE

**Chair: Dame Julia King**  
FREng

### Group members

Paul Blair, *BG Group*  
David Brown, *IChemE*  
David Docherty, *CIHE*  
Richard Earp, *National Grid*  
Laurianne Griffith, *GSK*  
S Hodgson, *Teesside University*  
Simon Howison, *BAE Systems*  
Beatrice Nicholas, *Selex-es*  
Nicola Price, *Rolls-Royce*  
Mark Ridgeway, *Group Rhodes*  
Carolina Salinas, *Aston University*  
Robert Sorrell, *BP*  
Libby Steele, *IChemE*  
A Townsend, *Imperial College London*

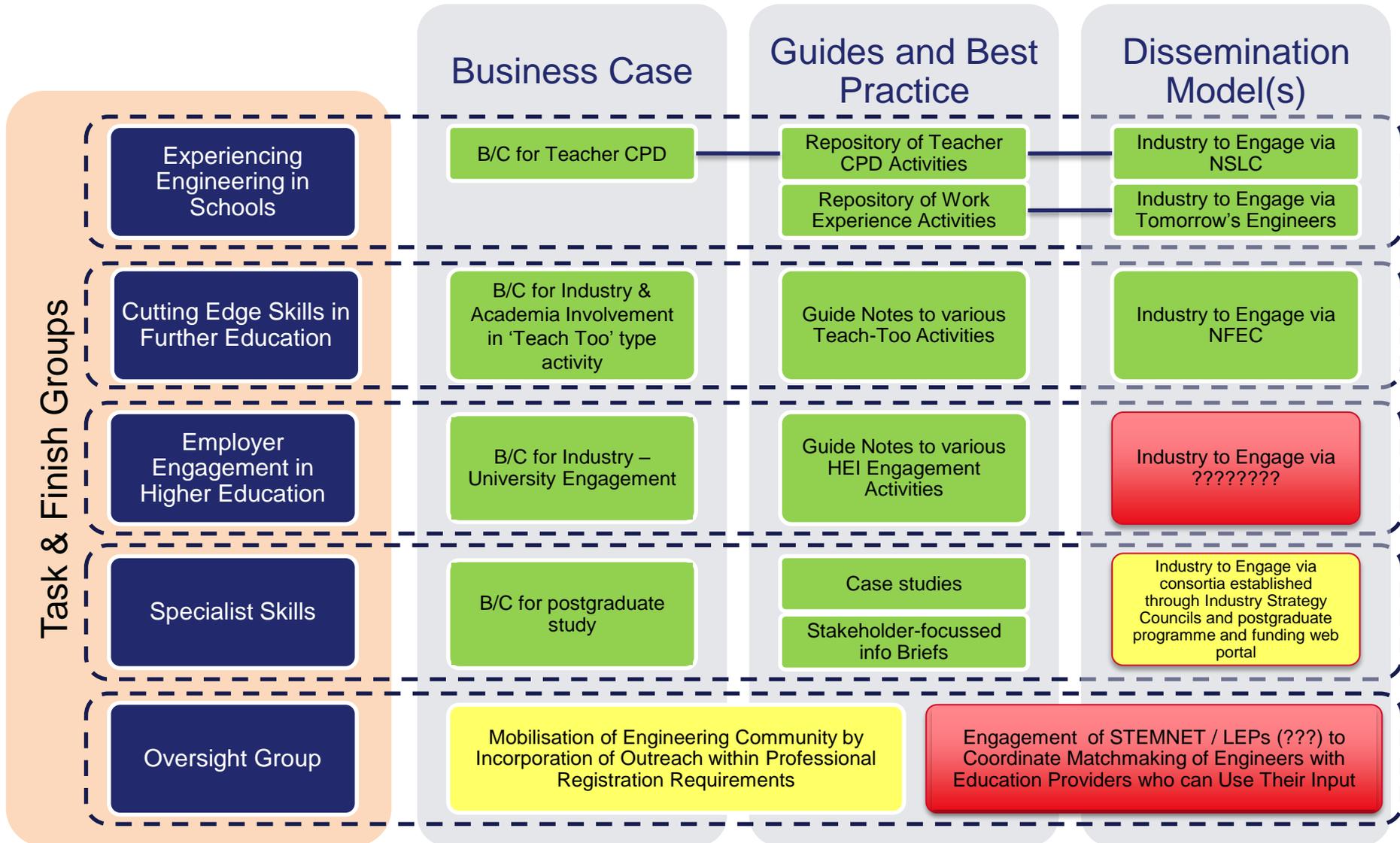
## Specialist Skills (postgraduate)

**Chair: Professor Helen Atkinson**  
CBE FREng

### Group members

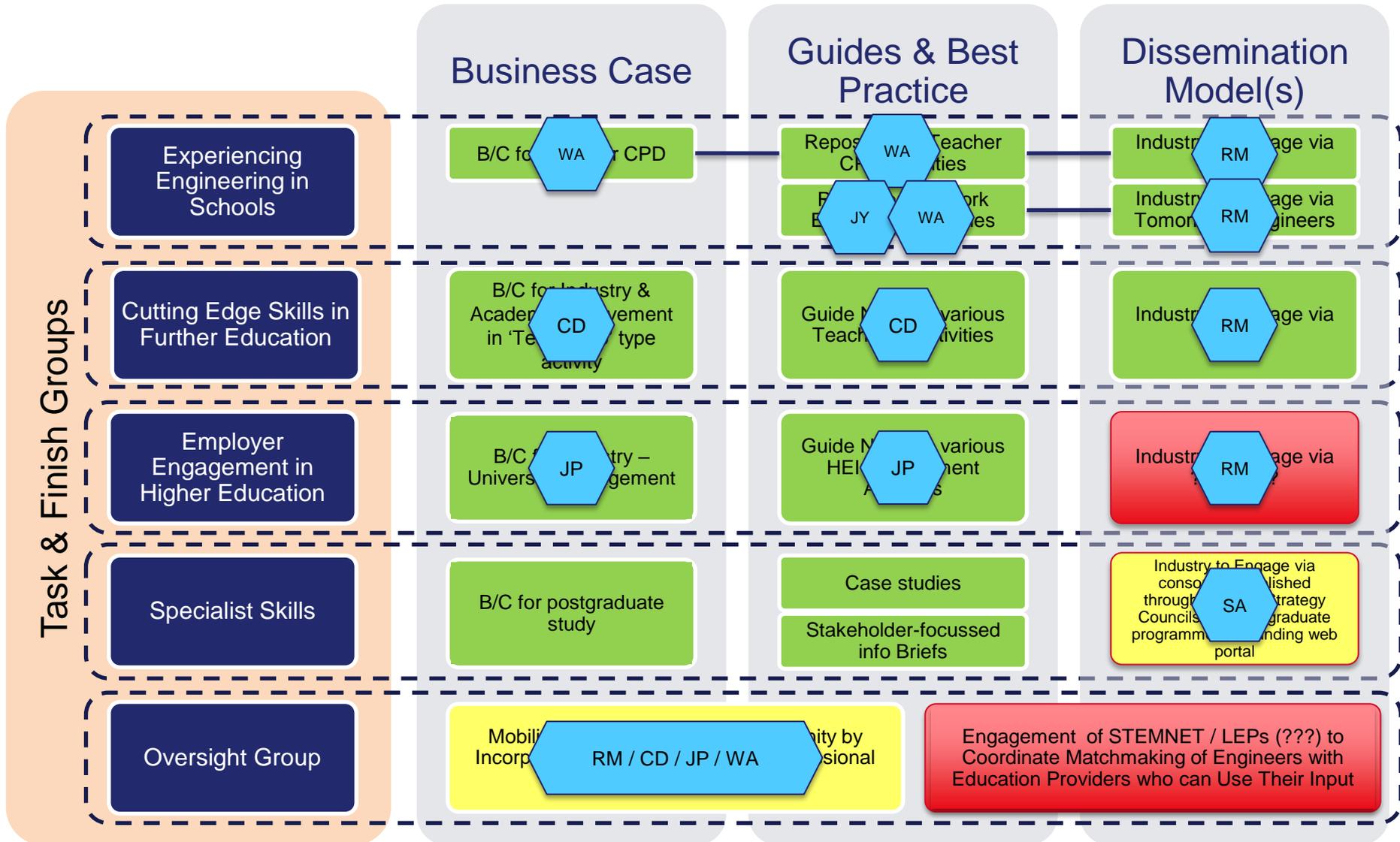
Dr Catherine Hobbs, *UWE and EPC*  
Prof Clifford Friend, *Cranfield University*  
Miranda Davies, *THALES UK*  
Clive Hickman: *Manufacturing Technology Centre* (to be replaced on appointment of the new Managing Director of the MTCs new Advanced Manufacturing Training Centre).  
Terry Spall : *MIRA Technology Park*  
Ben Simmons: *IBM*  
Debbie Buckler-Golder, *Technology Strategy Board*  
Patrick Kniveton, *Rolls-Royce Submarines*  
Tim Thomas, *EEF*  
John van Griethuysen FREng, *DE&S Submarine Operating Centre*  
David Martin, *Culham Centre for Fusion Energy (CCFE)*

# Overview of Task and Finish Group Outputs



Task & Finish Groups

# Overview of Task and Finish Group Outputs





Experiencing Engineering in Schools



Cutting Edge Skills in Further Education



Employer Engagement in Higher Education



Specialist Skills

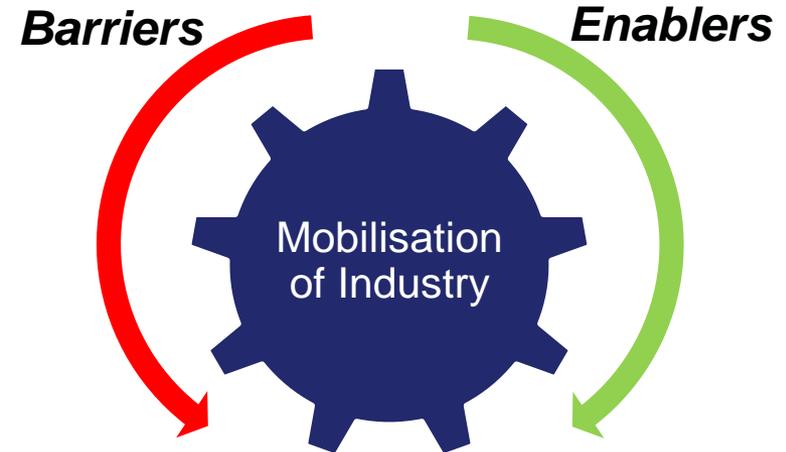


Oversight Group



# Cross Cutting Themes & Issues

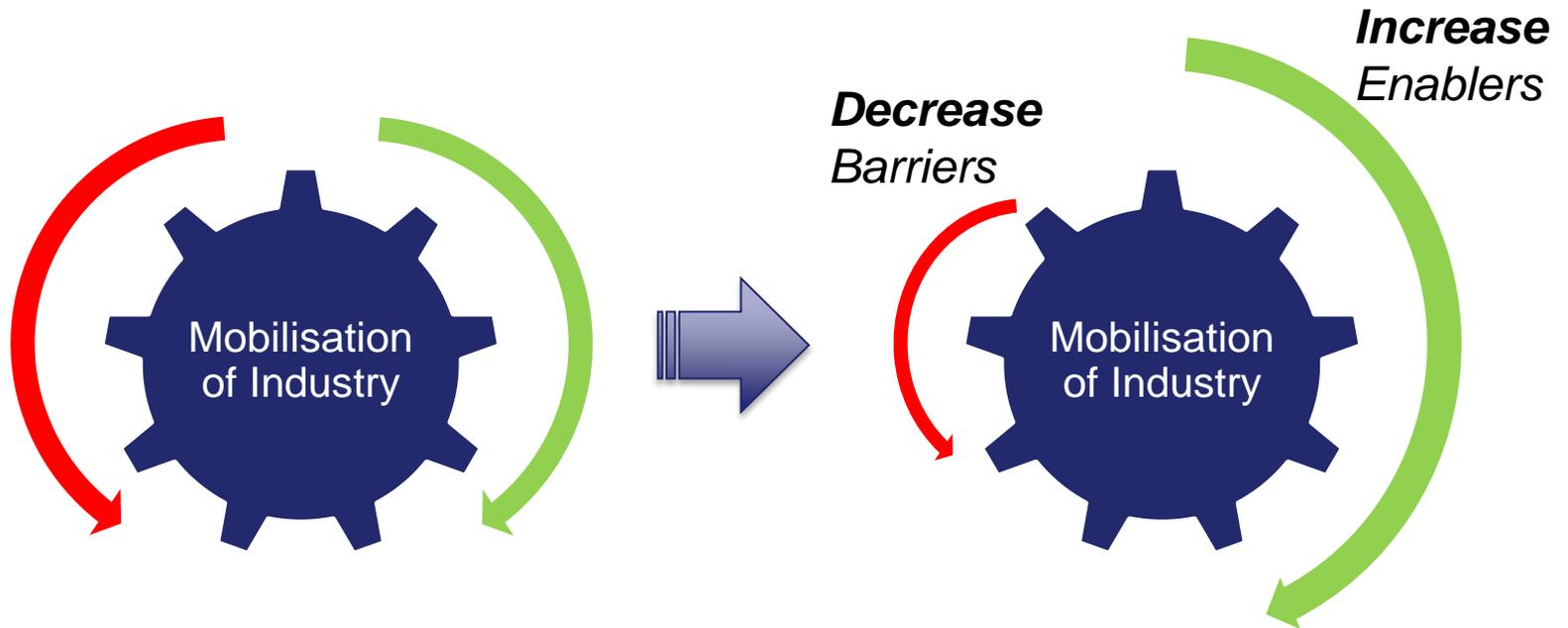
The primary objective is to energise Individuals, Companies and Education Institutions to deliver more engineers to the profession



A number of common issues have been identified across the Task and Finish Groups which need to be addressed in a coordinated way

A number of questions have therefore been postulated as 'Starters for Ten' which will be reviewed in meetings with Industry, PEI's and Education Institutions with the aim of breaking down barriers and increasing mobilisation

# Take Away Message



Engagement relies upon individual engineers engaging with students and / or staff. It is this engagement which we aim to promote by reducing the barriers and increasing the enablers