

Teaching Skills Needed in Engineering Departments to Meet Future Challenges

February 3rd 2010, 10.00am – 4.30pm
Royal Academy of Engineering

Participants: By invitation

Aims and Objectives of the Session:

The session will aim to explore the issues surrounding the teaching skills that will be needed in engineering departments to meet future challenges by considering the impact of changes in government policy, increasing student expectations, the needs of industry and new approaches to learning and teaching. The objectives are to understand whether the teaching staff in engineering departments have the skills necessary to meet these challenges, to consider where the skill gaps are or might be and to propose how these gaps should be filled and who should take responsibility for this.

PROGRAMME

TIME	ACTIVITY	
9.30-10.00	Tea /Coffee on arrival	
10.00-10.15	Welcome, Introduction, Aims of this Event	Denise Bower <i>Chair EPC Staffing Group</i>
10.15-10.30	Session 1: Drivers for Change (subject matter and students), which influenced the Engineers for Enterprise Study	Bob Ditchfield <i>Royal Academy of Engineering</i>
10.30 -11.00	Session 2: Higher Ambitions - The New HE Framework and Teaching Excellence	Charles Pickford <i>fdf</i> Barry Clarke <i>EPC President</i> Warwick Hall/Stuart Woosnam <i>NFEC</i>
11.00-11.15	Session 3: Professional Qualifications for Academic Staff	Carol Arlett <i>Engineering Subject Centre</i>
11.15–12.00	Session 4: - Experiences from departments that have gone through significant change	Ian Dunn <i>Coventry University</i> Bob Mines <i>Liverpool University</i> Martin Loomes <i>Middlesex University</i>
12.00-12.45	Lunch	
12.45- 13.00	The Findings from The National STEM Project	Michael Grove <i>National HE STEM Project</i>
13.00-13.15	Professional Qualifications for Academic Staff	Deborah Seddon <i>Engineering Council</i>
13.15-13.30	Student Perspective	Olivia Bailey <i>NUS</i>
13.30-14.30	<i>Participants divided into groups to consider:</i> What are the teaching skills needed in engineering departments to meet future challenges? Do departments have these skills? If not, where are the main skill gaps? <i>Capture thoughts to feedback</i>	Session Chair: Denise Bower
14.30-15.00	Group Reports. Plenary Discussion.	
15.00-15.15	<i>Tea / Coffee</i>	

15.15-15.45	<p><i>Participants split into 2 groups. One group to consider:</i></p> <p>How can the skills gaps be filled? Who should fund this? What impact do exercises such as REF have on the likelihood of success of your proposals?</p> <p><i>The other group to consider:</i></p> <p>Who should be taking a lead in highlighting the skills shortfall? How should they do this?</p>	
15.45-16.15	<p>Group Reports. Plenary Discussion.</p>	<p><i>Note: Aiming to complete the following statements as the key messages:</i></p> <p><i>Engineering Departments Do / Do Not have the skills needed to meet future challenges.</i></p> <p><i>The key skill gaps will be:</i></p> <p><i>These should be addressed by:</i></p> <p><i>This should be funded by:</i></p> <p><i>_____ should take the lead in addressing this need.</i></p>
16.15-16.30	<p>Agree key message to take forward.</p>	
16.30	Close	