

Introduction to the workshop

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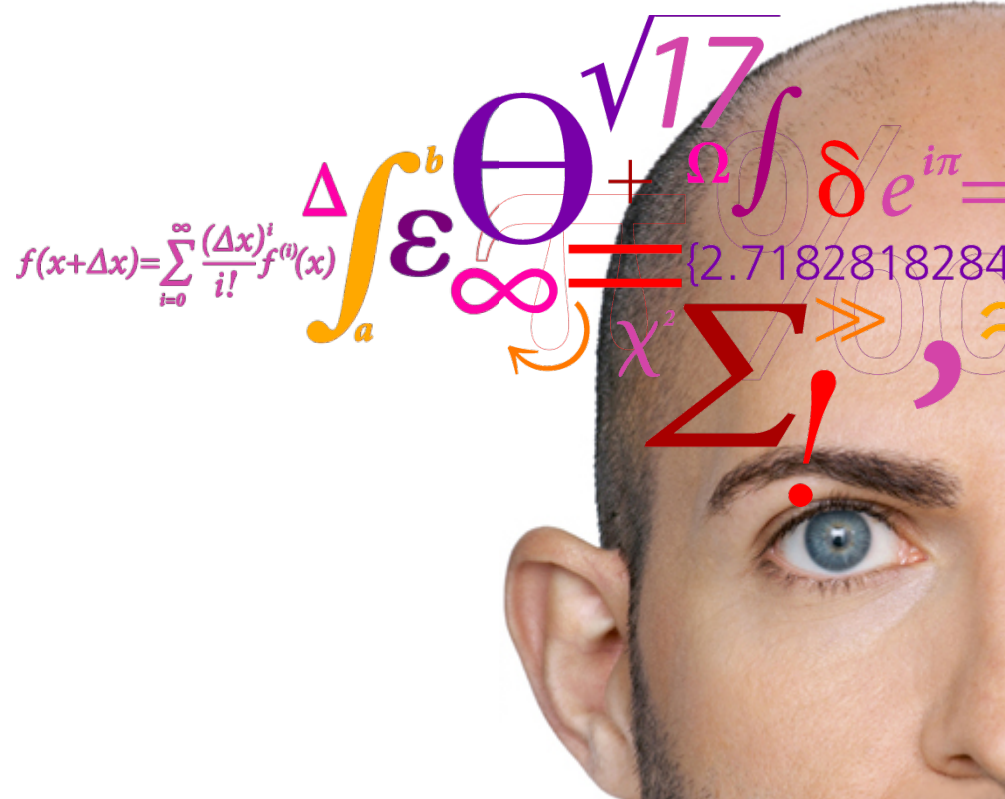
IEA EGRD Workshop

Developments in Energy Education:
Reducing boundaries

9 – 10 May 2012

Technical University of Denmark

DTU Management Engineering
Department of Management Engineering



Developing energetic knowledge carriers

- Needs for substantial improvements and growth in the talent pool to accelerate energy technology research and innovation
- Engineering approach: CDIO – Conceive, design, implement and operate
- Balance between
 - Operation and maintenance of the existing energy system
 - Creation and design of a future, sustainable energy system
 - Robust, workable and accelerated transition
- Educational and capability needs and requests may differ between:
 - Developed economies
 - Emerging economies
 - Developing economies
- Knowledge does not recognize boundaries
 - Mobility
 - Transnational education programmes and institutions

Programme

Setting the scene

1. Needs assessments of competences and requirements
2. The education value chain
3. Capacity building – a global responsibility
4. Civil society and the role of energy education

Exiting programme with room for discussion

Final discussion and key messages on Thursday

Workshop report synthesising our discussion and key messages to be sent to CERT and the member state delegates of IEA

WELCOME AND INTRODUCTIONS			
9:00	1	Welcome	<i>Dr. Martin P. Bendsøe, Senior Vice President and Dean, Technical University (Denmark)</i>
9:10	2	IEA Experts' Group on R&D Priority-Setting and Evaluation	<i>Rob Kool, EGRD Chair, NL Agency (Netherlands)</i>
9:20	2	Introduction and Meeting Objectives	<i>Birte Holst Jørgensen, Vice Chair EGRD, Dep. Dir., Management Engineering, DTU (Denmark)</i>
9:30	3	Opening Remarks	<i>Lars Georg Jensen, International Chief Advisor, Danish Energy Agency</i>
A. NEEDS ASSESSMENT OF COMPETENCIES AND REQUIREMENTS			
<i>Moderator: Rob Kool, EGRD Chair (Netherlands)</i>			
10:00	1	Preparing a Modern Energy Workforce: Federal and Private Sector Initiatives in the United States	<i>Craig Zamuda, Senior Policy Advisor, Department of Energy (United States) Ann Shikany, Programme Analyst, Department of Energy (United States)</i>
10:30	2	European Strategic Energy Technology Plan – Energy Education and Training Roadmap	<i>Miroslava Naneva, Energy Policy Officer, DG Research and Innovation, European Commission</i>
11:00	3	Break	
11:30	4	Discussion and Key Messages	<i>Moderator</i>
12:00		Lunch – invitation by DTU	
B. THE EDUCATION VALUE CHAIN			
<i>Moderator: Herbert Greisberger, EGRD Vice Chair (United States)</i>			
13:00	1	Whole Energy Systems Graduate School	<i>Magnus Karlsson Director of Studies, and Mats Söderstrom, Linköping University</i>
13:30	2	Teaching New Energy Technologies and Systems	<i>Paulien Herder, Faculty of Tech., Policy and Management, Delft University of Technology</i>
14:00	3	Talent Factory for Wind Power	<i>Anders Dalegaard, Danish Wind Power Assoc.</i>
14:30	4	Sustainable Energy, Sino-Danish Center on Research and Education	<i>Birte Holst Jørgensen, Principal Coordinator, DTU</i>
15:00		Break	
15:30	5	Achieving Understanding of Complex, Interdisciplinary Energy Systems	<i>John Loughhead, Executive Director, United Kingdom Energy Research Centre</i>
16:00	6	Discussion and Key Messages	<i>Moderator</i>
17:00		Close Day 1	
18:30-		DTU hosted dinner, Nimb Brasserie, Tivoli (www.tivoli.dk/composite-7553.htm)	

C. CAPACITY BUILDING – A GLOBAL RESPONSIBILITY			
<i>Moderator: Carrie Pottinger, EGRD Secretary (IEA)</i>			
9:00	1	United Nations Environment Programme Capacity Building	<i>John Christensen, Head of Risø UNEP Center</i>
9:30	2	Forming Tomorrow's Leading Experts on Carbon Capture and Storage	<i>John Gale, General Manager, and Tim Dixon, Greenhouse Gas IA</i>
10:00	3	International Energy Agency Training and Capacity Building	<i>Assen Gasharov, Programme Manager, Training and Capacity Building Programme, IEA</i>
10:30	4	Capacity Building through Energy Modelling and Systems Analysis	<i>Uwe Remme, Senior Analyst, Energy Technology Perspectives Division, IEA</i>
11:00	5	Discussion and Key Messages	<i>Moderator</i>
12:00		Lunch	
13:00		Visit to DTU PowerLab	<i>Prof. Jacob Østergaard</i>
D. CIVIL SOCIETY AND THE ROLE OF ENERGY EDUCATION			
<i>Moderator: Sea Rotmann, EGRD Delegate (New Zealand)</i>			
14:30	1	Educating the Public to Save Electricity in Times of Crisis	<i>Sara Pasquier, Programme Manager, Energy Efficiency, IEA</i>
15:00	2	The District of Tomorrow	<i>Ludo Kockelkorn, Zuyd University of Applied Sciences (Netherlands)</i>
15:30	4	Shared Learning: from Theory to Practice	<i>Sea Rotmann, CEO, Sustainable Energy Advice</i>
16:00	5	Discussion and Key Messages	<i>Moderator</i>
E. NEXT STEPS			
<i>Moderator: Birte Holst-Jorgensen, EGRD Vice Chair (Denmark)</i>			
17:00	1	Discussion and Key Messages	<i>Moderator</i>
17:15	2	Workshop Conclusions	<i>Moderator</i>
17:30	3	End of Workshop	

