

International short course series

## rogress in Hydrogen Safety

ADVANCED RESEARCH WORKSHOP

# Hydrogen production and storage

19-23 October 2009, Jordanstown, Belfast, UK



Forthcoming courses and advanced research workshops 2009/2010:

No.6: Regulations, codes, and standards 25-29 January 2010, Belfast, UK

No.7: Hydrogen and fuel cell technologies and case studies

25-30 April 2010, Belfast, UK

No.8: Hydrogen vehicles and infrastructure 14-18 June 2010



















































### ADVANCED RESEARCH WORKSHOP

### **Technical Programme**

#### Monday 19th October 2009

AM Vladimir Molkov (University of Ulster, UK):

Non-reacting hydrogen jets and jet fires

PM Karl Verfondern (Forschungszentrum Jülich, Germany):

Production methods - advancement in efficiency and safety

#### **Tuesday 20th October 2009**

AM Karl Verfondern (Forschungszentrum Jülich, Germany):

The safe production of hydrogen using nuclear energy

PM Christian Machens (Marine Hydrogen & Fuel Cell Association/Efficientics, Germany):

Production of hydrogen in marine environments, status and future trends

#### Wednesday 21st October 2009

AM Christian Machens (Marine Hydrogen & Fuel Cell Association/Efficientics, Germany):

Marine storage technologies for hydrogen

PM Jason Stoyel (TNEI Services, UK)

Hydrogen production from wind - technical challenges

#### Thursday 22nd October 2009

AM Jason Stoyel (TNEI Services, UK)

Hydrogen safety at Yorkshire Forward's mini grid

PM Jaco Reijerkerk (Linde AG, Germany):

Industrial Gas Industry: Hydrogen production, logistics and storage

#### Friday 23rd October 2009

AM Jaco Reijerkerk (Linde AG, Germany):

Hydrogen applications and hydrogen fuel quality from an industrial gas industry perspective

PM Sile Brennan (University of Ulster, UK):

Installation permitting guidance for hydrogen and fuel cell stationary applications (HYPER)

VENUE: Loughview Suite University of Ulster Jordanstown Belfast BT47 0QB

ACCOMMODATION: Information on local hotels and B & Bs http://hysafer.ulster.ac.uk/phs/

COURSE FEES\*: £950 GBP for full course £250 GBP for 1 day attendance

NO FEE PGD/MSc HSE: Equivalent to 20 CATS points Optional FEE £199 (see registration form)

QUERIES: H2safety@ulster.ac.uk 0044 (0) 2890366407 Flass contact us if you have any questions

\* Course fees include access to sessions, incl. round table discussions, course materials, refreshments, welcome reception and course dinner

Reduce your fee - register for the World's first MSc course in Hydrogen Safety Engineering (HSE) at: http://campusone.ulster.ac.uk/potential/postgraduate.php?ppid=24

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REGISTRATION FORM (Please complete in BLOCK CAPITALS and tick a box where appropriate)		
SURNAME:	FIRST NAME:	TITLE (PROF/DR/MR/MISS/MS/MRS):
JOB TITLE:	ORGANISATION:	
ADDRESS:		
TELEPHONE:	FAX:	EMAIL:
ANY SPECIAL REQUIREMENTS		
COURSE FEES		
Full course attendance fee £950 (5 days) One day fee £250 Number of days Free for PGD/MSc HSE students (prepaid as part of payment for the course, equivalent to 20 CATS points, i.e. £380) Optional fee for PGD/MSc HSE students (welcome reception, lunches, refreshments, course dinner, etc.) £199  METHODS OF PAYMENT  1. Cheques in Pounds Sterling should be made payable to the "University of Ulster" and crossed. 2. If you wish to be invoiced please supply: name, organisation, address for invoice, post code, order no., phone no. & contact person. 3. Payment may be made by credit/debit card using VISA, or MASTERCARD credit card or by SWITCH, MAESTRO and VISA Electron debit cards only. If you wish to pay by one of the above cards please complete the following in full:  TOTAL COST £		
MASTERCARD VISA SWITC	CH MAESTRO VISA	Electron DATE:
NAME ON CARD:	EXPIRY	DATE:
ADDRESS (Billing address):		S. C.
Charge to my credit/debit card:  ISSUE No. (SWITCH only): SIGNATURE:	VALIDATION CODE (only require	d if no signature):

The course fee and completed registration form should be sent by post or fax to: Ms Sharon Adams, CPDU, University of Ulster, Shore Road, Newtownabbey, Co. Antrim BT37 0QB, UK. Fax Number: +44(0)2890366060.

Arrangements can be made to make a direct bank transfer if required. Please request our bank information.