

Economics of Ocean and Marine Renewable Energy

Wednesday, 21st April, 2010

GO6, Brookfield Science Building, UCC,
Cork City, Ireland

Organised by Dr Gordon Dalton
(Charles Parsons research)
Hydraulics and Maritime Research Centre
University College Cork



The HMRC at University College Cork was established in 1979. It is a centre of excellence within Ireland for Coastal Engineering and Ocean Renewables, providing support to the maritime industry as well as fundamental R&D. It houses the only facilities for wave simulation in Ireland with a Wave Flume and an Ocean Wave Basin.

INTRODUCTION

The Hydraulics and Maritime Research Centre of University College Cork have organised a seminar that will address the challenges facing engineers/managers/economists in the economic evaluation and feasibility assessment of offshore ocean and marine renewables. This seminar will contain 15 presentations that will deal with the economics of:

- Wave/tidal technologies as well as
- Offshore wind.

Additionally, the seminar addresses the economics of ancillary factors necessary for deployment success:

- Grid integration,
- Storage and
- Interconnection.

SEMINAR OBJECTIVE

There has been much research and discussion on the technical difficulties facing offshore renewable technologies. However, the consideration of the economics of the technology has been much neglected to date. Economic evaluation of projects should be assessed in conjunction with the technical research as each is equally important for final success of a project.

This forum is the first event of its kind gathering together all academics and researchers in the field of offshore renewable economics. It will provide an invaluable platform to find out what is the latest economic research in this new and expanding field, and provide crucial networking environment for meeting colleagues in offshore energy.

The exciting list of presenters is drawn from all fields of research:

- 7 academic universities
- 5 engineering companies

- 2 utilities.

WHO SHOULD ATTEND?

- Device developers
- Utilities
- Government departments
- Consulting and Contracting Engineers
- Accountancy firms
- Academic institutions

SEMINAR BOOKINGS AND COST

Places are limited to 85 and will be allocated on a first-come basis, **pre-booking is essential** using the registration form provided, by online registration provided by the link below or by direct communication to the contact details provided below.

The cost of attendance at the seminar is free. Refreshments and a warm lunch will be provided. See Entertainment below for events organised before and after the forum.

Special accommodation rates have been arranged at the Lancaster Lodge <http://www.lancasterlodge.com>
Other recommended accommodation listed at :
<http://www.ucc.ie/en/conferencing/accommodation/>

ENTERTAINMENT

Tuesday evening 8pm

Open reception ceremony held at Aula Max,
North wing UCC. All welcome
(see map overleaf)

Wednesday evening 8pm

Meal for delegates, Luigi Malones Restaurant.
<http://www.luigimalones.com/location.php?page=location>

REGISTRATION

There are **two ways** to register:

1. Online registration via the following link address:
<http://hmrc.ucc.ie/form.html>
 2. Complete the registration form below and email to hmrc@ucc.ie
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SEMINAR PROGRAMME

8:30-9.00am REGISTRATION

9:10 Opening Address; Tony Lewis, Director of HMRC

SESSION 1:

Session Chair: Mr Gordon Dalton, HMRC

- 09:30 Coupling Large Scale Coastal Hydro Storage with Wind in Ireland
Dr. Greg Swindon – Indecon UK
- 09:45 The Macro-Economics of Marine Renewables
Dr. Karyn Morrissey,- SEMRU, NUIG
- 10:00 The economics of tidal energy
Dr. Eleanor Denny – TCD Economics Dept
- 10:15 Economics of large-scale wave device arrays
Dr. Tim Stallard - Manchester University

10:30 *Tea/Coffee*

SESSION 2:

Session Chair:

- 10:45 The Irish REFIT scheme and offshore wind.
Dr. Laura Malaguzzi Valerie - ESRI
- 11:00 Funding and job creation in British offshore renewable industry

Dr. Oliver Wragg, BWEA

- 11:15 Economical considerations of the WETS Belmullet cable
Julie Ascoop – Arup Consulting Engineers
- 11:30 Economics benefits of a collaborative network for Marine renewables
Dr. Paul Brewter - PureMarine
- 11:45 The pursuit of economic ocean energy: A utility perspective
Dr. John Fitzgerald – ESBI

12:00 LUNCH

SESSION 3:

Session Chair

- 13:00 Economics opportunities of the offshore wind
Garrett Connell – Oriel Wind
- 13:15 Topic to be forwarded
Dr. Gareth Harrison – Edinburgh University
- 13:30 Economics of marine energy in Scotland and the UK
Dr. Michelle Gilmartin– Strathclyde University
- 13:45 Economic model of GB and SEM offshore wind markets
Dr. Oliver Pearce – Pöyry Energy Consulting
- 14:00 Pumped storage economics for offshore wind
Batsaikhan Nyamdash –ERC TCD
- 14:15 Tea/coffee

SESSION 4:

Session Chair:

- 14:30 TIMES modeling economic optimisation of renewable mix for 20:20:20
Dr. Brian O’Gallachoir, Civil Eng, UCC.
- 14:45 Market and regulatory aspects of the linking an offshore grid - the Irish and Scottish Links Energy Study (ISLES)
Jim Gannon, RPS Group (Chair of Energy and Environment division of IEI)
- 15:00 Pumped storage for renewable energy
Dr. Paul Deane, Civil eng, UCC
- 15:15 Coffee/Tea

SESSION 5: Workshop breakout groups

- 15:30 Breakout groups A, B, C, D
- 16:30 Discussion
- 17:00 – 18:00 Close followed by *Tea/Coffee/ Wine*

REGISTRATION FORM

Name:

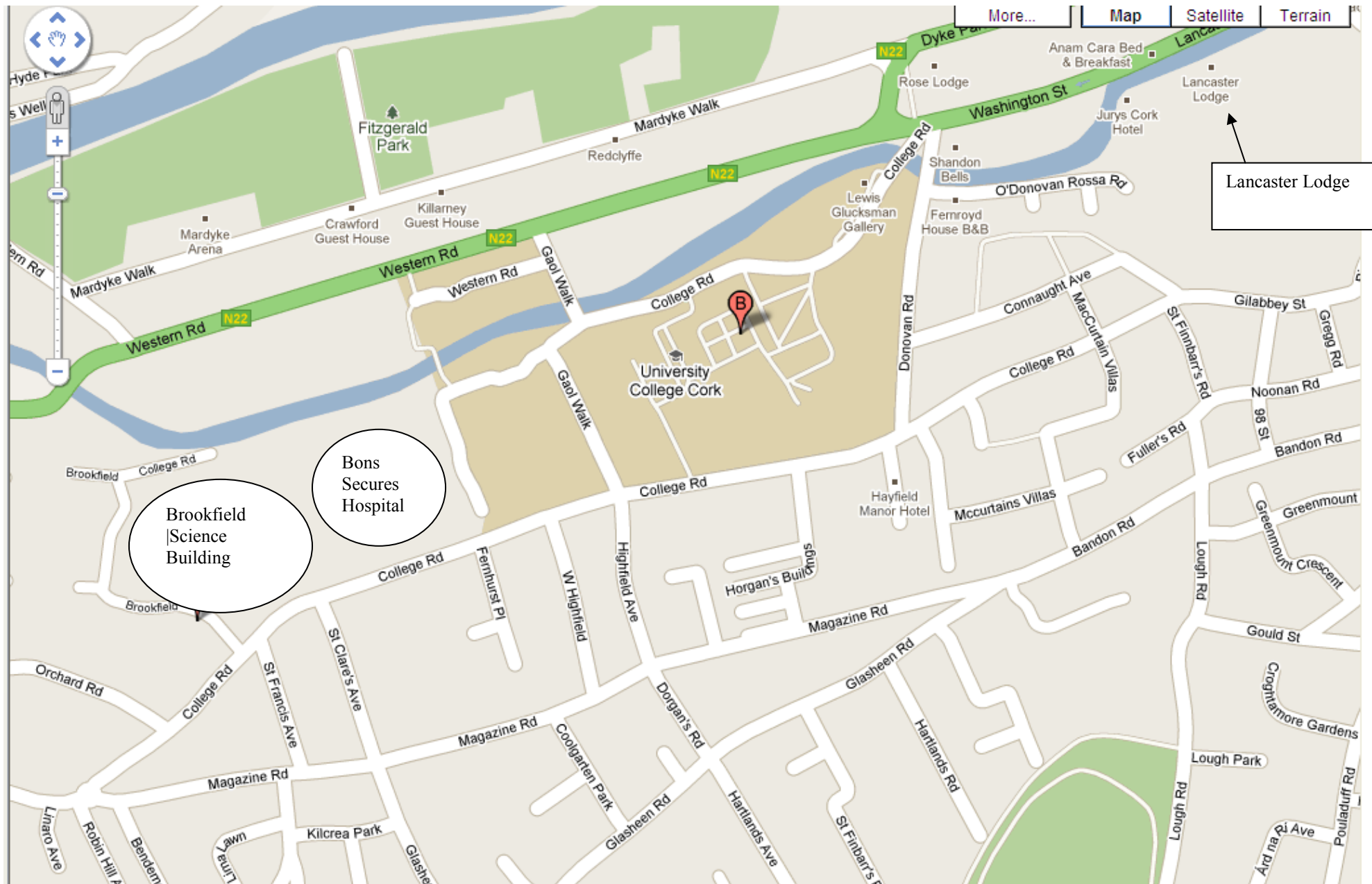
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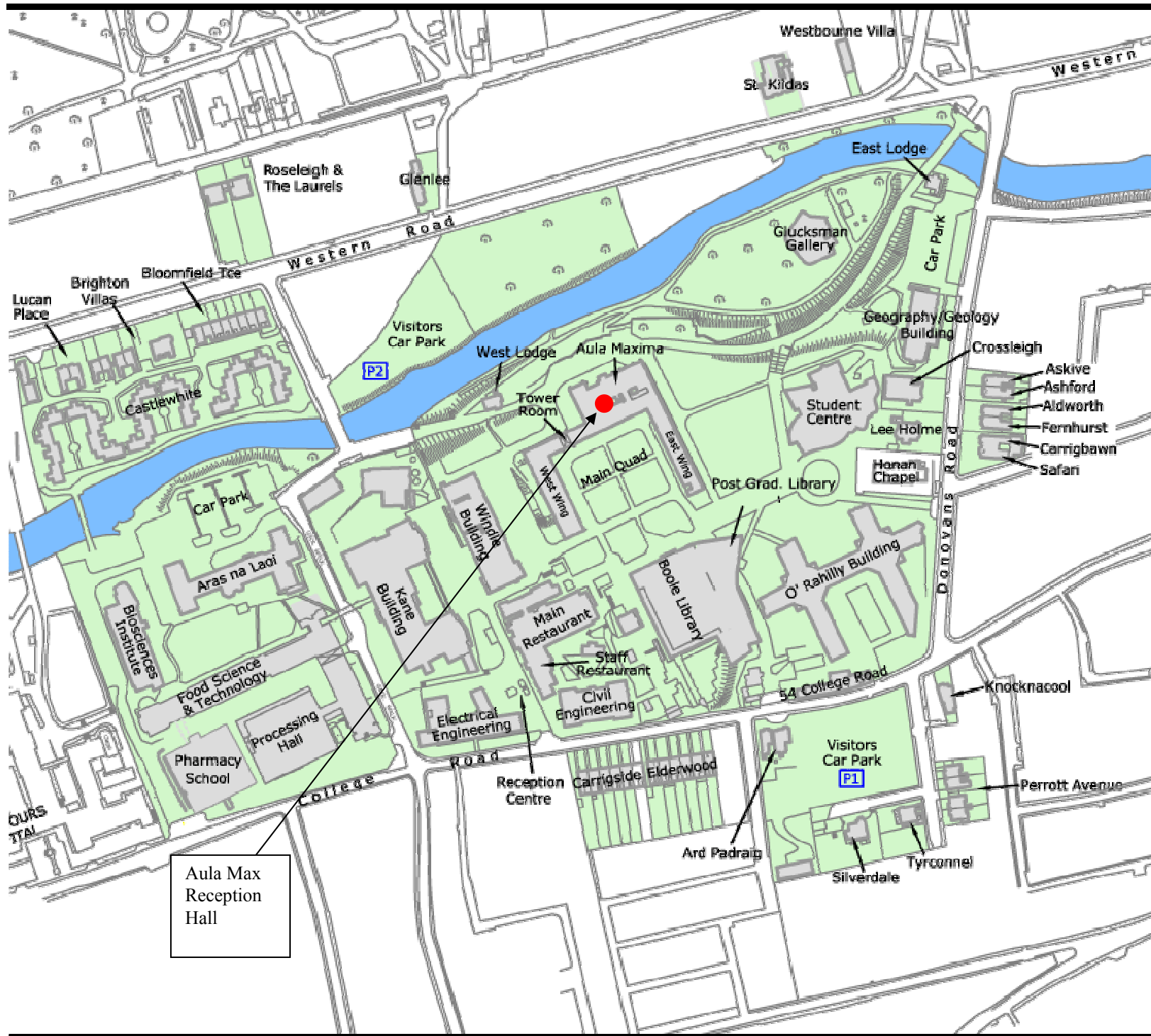
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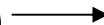
Tel:

Email:





Lancaster Lodge
200m along
Western Rd



Aula Max
Reception
Hall