

## Introduction

In response to the ever increasing interests and technological developments in environmentally friendly energy systems, the Organizing Committee are pleased to welcome you to the 2nd International Symposium on Environment-Friendly Energies and Applications (EFEA2012) which will be held in Newcastle upon Tyne, UK, 25-27 June 2012.

EFEA is a forum for bringing academics, scientists, engineers and industrial partners together to discuss the recent developments in the areas of environment friendly energies and their applications. The main theme of this symposium is on renewable and sustainable energy systems, hybrid transportation systems and energy security.

## Conference Venue

The Symposium will be held at Northumbria University in Newcastle upon Tyne, UK, at the city campus east location.



The city campus of Northumbria University is located in the centre of Newcastle. The city of Newcastle upon Tyne is situated in the northeast of England on the north bank of the River Tyne. Together with its neighbouring town Gateshead, on the south bank of river Tyne, they form a single, diverse and extremely vibrant visitor destination and conference venue. It has a world-class culture, vibrant nightlife, award-winning restaurants, inspiring heritage and architecture including fantastic accommodation facilities and shopping complexes.

## Topics

EFEA2012 topics include (but are not limited to):

- 1. Policy:** Renewable Energy Technology Roadmap; R&D; Finance; Supply Chain; Marketing
- 2. Low Energy Building and Architecture:** Green Building; Bioclimatic Architecture; Comfort and Indoor Climates; New Materials; Smart HVAC systems
- 3. Advanced Power Systems:** Distributed Energy Resources; Smart Grid; Micro-grid; Power Electronic Convertors
- 4. Electric and Hybrid Vehicles:** Electric Cars; Hybrid Engines; Regenerative Brake Systems; Power/Electric Transmission Systems; Battery Charge/Energy Management
- 5. Control:** Smart Electrical Energy Metering; Fault Tolerated Control Systems; Demand/Power Control
- 6. Wind and Hybrid Renewable Energy Systems:** Wind Turbine Aerodynamics and Structure; Wind Turbine Load and Power Control; On-grid and standalone Hybrid System; Power/Demand Management Systems; Resource Modelling
- 7. Solar Thermal and Geothermal:** Solar thermal collectors; Solar desalination; Solar Heat Pump; Combined Heat and Power; Air-Conditioning; Geothermal Heat Pump; Geothermal Direct Use
- 8. Hydrogen & Fuel Cell:** Fuel Cell Power Plants; Fuel Cell for Transportation; Hydrogen Production
- 9. Hydropower and Marine Energy:** Micro & Pico Hydro System; Ocean Thermal Energy; Wave Energy; Tidal Energy
- 10. Energy Storage:** High voltage batteries; Battery charge balancing and cooling; Charge/energy management; Ultra-batteries; Thermal, unconventional and Hybrid energy storage systems
- 11. Biomass:** Biofuel; Biomaterials; Biomass Gasification; Biomass heating systems
- 12. Materials in Renewable Energy Technologies:** Composite materials; Smart materials; Shape memory alloys
- 13. Education and Career:** Higher education; Life-long learning; Prospects in green job opportunities; continuing professional development



## INTERNATIONAL SYMPOSIUM ON ENVIRONMENT FRIENDLY ENERGIES AND APPLICATIONS (EFEA 2012)

25-27 June 2012, Northumbria University  
Newcastle upon Tyne, United Kingdom  
[http:// soe.northumbria.ac.uk/efea2012](http://soe.northumbria.ac.uk/efea2012)

## Call for Papers



Organised by

- Northumbria University, UK
- University of Valenciennes, France

With the collaboration of

- University of Médéa, Boumerdès, Tlemcen, and Ecole Nationale Polytechnique Algeria

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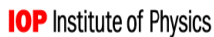
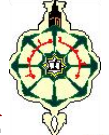
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## Important Dates

Full paper submission deadline:	<b>25 April 2012</b>
Notification of acceptance:	<b>07 May 2012</b>
Early bird registration deadline:	<b>25 May 2012</b>
Camera ready version submission deadline:	<b>06 May 2012</b>
Author registration deadline:	<b>06 May 2012</b>

## Publication

**Conference Proceedings:** Delegates will receive a copy of the proceedings at the registration desk at the beginning of the symposium.

**Journal Publication:** Selected papers will be published in the **Mediterranean Journal of Measurement and Control**.

## Paper Submission

**Submission:** Papers should be submitted electronically to:

<https://cmt.research.microsoft.com/EFEA2012>

**Format:** Papers should be written in English according to IEEE standard. Papers should not exceed 6 pages.

## Registration Fee

Authors registration fee include lunch, banquet, conference proceedings and conference bag.

	Before and on 25 May 2012	Before and on 06 June 2012	On-site registration
Authors	£350	£400	N/A
Authors (Student)	£250	£300	N/A
One day (non-authors)	£150	£150	£200
Workshop	£10	£10	£10

The conference tour, which is a one hour boat trip on the River Tyne, will be charged an additional £10 on a first-come first-serve basis.