KidWind Ireland Course - 4th - 7th June 2013 - Dublin West Education Centre

KidWind Ireland is a project that seeks to support teachers; training and equipping them so they can teach their students about wind energy and renewables in Ireland. Aimed at science, mathematics and geography teachers, covering theory and practical wind energy topics at the appropriate level, training is delivered as a hands-on, fun; four day course which includes a visit to a sponsor wind turbine site and a curriculum kit to use in teaching the material to students, which even includes a desk top turbine to be built in the classroom! It’s a great idea for transition year students.

The KidWind Ireland course introduces teachers to the science behind wind energy while giving them the knowledge, skills, and resources needed to bring wind energy into their classrooms using standards-based activities. The training is aimed at primary and secondary school teachers interested in renewable energy, physics, general science, technical education, engineering, environmental science, and mathematics.

Lessons include:
- Renewable energy and energy concepts
- Wind energy history
- Basic turbine system concepts & technology
- Blade and turbine design
- Power output and energy of wind
- Wind farms in Ireland
- Wind energy environmental and economic impacts
- Generators & motors
- Classroom projects (building of a model turbine using the classroom kit.)

Thank you to Energia & Irish Wind Energy Association (IWEA) for their sponsorship and support of this course.

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www.skillnets.ie

www.iwea.com
Learning Outcomes:

Upon course completion, teachers will be prepared to teach students the following:

**Primary level**
- Elementary Wind Energy
- Wind Chimes
- Wind Art
- Building Simple Blades

**Secondary level**
- Testing Blade Parameters
- Assessing Wind Resources
- Blade Design
- School Wind Turbine Siting Projects
- Data Analysis
- Building of a Model Wind Turbine with the classroom kit

Course Duration - 4 days

Maximum Number of participants - 15

**Your Trainers:**

**Dr. Paul MacArtain**

Paul has been working as a researcher in the Centre for Renewable Energy at Dundalk Institute of Technology (CREDIT) since 2006. His research interests include small wind turbine and energy storage technology development. His research interests also include bio fuels from marine sources. He is involved with the management of the large scale wind turbine at Dundalk IT. He has been involved with the development of, and currently lectures on, a number of courses at Dundalk IT including the MSc in Renewable Energy Systems and the Certificate in Renewable Energy. Paul holds a PhD in Physical Chemistry from NUI Dublin.

**Your Trainer:**

**Raymond Byrne**

Raymond has been a researcher in the Centre for Renewable Energy at Dundalk Institute of Technology (CREDIT) since 2005, working on small scale wind system design & testing, and energy storage with wind energy. He is involved with the International Electrotechnical Council (IEC) on small wind turbine standards development on behalf of NSAI, and also with the International Energy Agency (IEA) Wind Task 27. Having completed over twenty renewable energy consultancy projects within the industry, he’s also presented at numerous national and international conferences & workshops. He’s an instructor on the Certificate in Renewable Energy at DKIT and is responsible for the operation of the large wind turbine and flow battery storage system on campus. Raymond holds an MSc in Renewable Energy Systems, Loughborough University, UK, MSc in Electronics, Queen’s University Belfast, and an honours degree in Applied Physics, NUI Galway.
Date: Tuesday 4th - Friday 7th June 2013  
**Location:** Dublin West Education Centre; at the Institute of Technology (Tallaght,) Old Blessington Road, Tallaght, Dublin 24  
**Registration:** 09:00AM  
**Start:** 09:30AM  
**Finish:** 4:30PM  
**Cost:** Free of Charge to Irish teachers  
**Trainers:** Dundalk Institute of Technology

I wish to reserve _______ number of places.

**Trainee Details:**

Trainee Name: ____________________________________________

Trainee Name: ____________________________________________

Trainee Name: ____________________________________________

School: ________________________________________________

School Address: ______________________________________________________________________________________

Trainee Email: ____________________________________________

Trainee Phone: ____________________________________________

Please forward fully completed registration form to:  
Wind Skillnet, C/O IWEA, Sycamore House, Millennium Park, Osberstown, Naas, Co. Kildare — Fax: 045 854 958

Or register via email - please send all details requested above in an email to deborah@iwea.com

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