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An Institiúid Teicneolaíochta, Sligeach

Photo by Sean Mulrery

  
An Institiúid Teicneolaíochta, Sligeach

**WOOD ENERGY**  
**FOR HEAT, STEAM AND POWER**

**MAY 13<sup>TH</sup> 2011, 1.45PM - 5PM**  
**A0004, MAIN BUILDING, IT SLIGO**

**ADMISSION FREE – ALL WELCOME**

## WOOD ENERGY FOR HEAT, STEAM AND POWER

Wood energy is a sustainable, local resource that can be utilised very effectively to provide heat, steam and power.

Heat from wood fuel makes financial sense because it costs approximately half the price of heat from oil and gas sources. Payback on larger heat installations can be made in a matter of three to four years.

This conference has been organised by IT Sligo to answer any questions potential users of wood energy may have, and to illustrate local and international examples.

## CONFERENCE AGENDA

**1.45** : Welcome from Professor Terri Scott, President, IT Sligo

**2.00** : Economic Potential for Wood Energy in the West - Bernadette Phelan, WDC

**2.20** : Forestry Fuel Resource in the West - Paddy Donovan, Clare Wood Energy Project

**2.45** : Wood Fuel Quality Assurance - Tom Bruton, Irish Bioenergy Association

**3.15**: Tea/Coffee

**3.30** : Heat, Steam and Power from Wood Energy - Joe O'Carroll, Imperative Energy

**4.00** : Case Study: Wood Energy for Heat at a Health Centre - Declan McGoldrick, HSE

**4.30** : Case Study: BioEnergy Plant - Brian Campbell, Confederation College, Ontario

**5.00** : Feasibility Study - Terence Cosgrove, Architect and Energy Consultant MRIAI

## SPEAKERS

### Bernadette Phelan - Western Development Commission

Bernadette Phelan is a Development Executive with the Western Development Commission. She specialises in market research and enterprise development in the renewable energy sector with a particular focus on bioenergy. She is currently managing the delivery of the EU bioenergy project RASLRES in the Western Region. She has over ten years experience in enterprise development.



Prior to joining the WDC, Bernadette worked with LEADER in Kilkenny. She holds a Masters in Rural Development from UCD, a BA in Economics & Geography from Trinity College Dublin and an Advanced Certificate in Renewable Energy from the Tipperary Institute.

## SPEAKERS

### **Paddy Donovan - Clare Wood Energy Project**

Paddy Donovan graduated from UCD with a degree in forestry in 1986. From 1986 to 1991 he was harvesting manager with Coolrain Sawmills, Co. Laois. This was a period of transition in the harvesting sector moving from manual to mechanised harvesting.



He joined the Woodland Group, Galway as forest manager in the West and South West in 1991, where his work covered all aspects of forest operations, from afforestation to roading and harvesting.

In 1998 Paddy became self-employed, setting up Donovan Forestry Services, an independent forest consultancy service. He is also the co-founder and director of DARE Ltd, a rural development consultancy. His current work focuses on the potential renewable energy benefits from forests including windfarms and solid biomass, developing supply chains. He is also currently working with Steve Luker, Fred Tottenham and Tom Bruton to deliver the RASLRES project.

## SPEAKERS

### **Tom Bruton, Irish Bioenergy Association & AEBIOM**

Tom is President of the Irish Bioenergy Association and a Director of AEBIOM, the European Biomass Association. A Chartered Engineer, he has run a consulting business since 2004 and been responsible for management of staff and subcontractors, business development and successful project execution. Tom is part-time lecturer at Dublin Institute of Technology for an MSc in Energy Management.



Tom holds a Masters degree in Renewable Energy technologies awarded by the Ecole des Mines de Paris, a Diploma in Biomass Energy Technologies from the Universidad de Zaragoza and a primary degree in Biosystems Engineering from University College Dublin.

### **Declan McGoldrick, HSE North West**

Declan McGoldrick works with the HSE as a Capital Projects Manager/ Energy Manager. He reviews Energy Performance of Healthcare Buildings in 300 locations in counties Sligo, Leitrim, and Donegal. This includes monitoring of Energy Consumption, procurement of Electricity, and Project Management of Mechanical Services installations. He was awarded Energy Manager of the year by SEAI in 2005, following substantial Energy Savings that were achieved over a five year period.



Declan will speak on the issues encountered with the Design, Procurement, Installation, and Operation of a 300 kW wood pellet boiler at Arus Breffini Nursing Unit in Manorhamilton, Co. Leitrim.

## SPEAKERS

### Terence Cosgrove - Terence C. Cosgrove Architects

Terence Cosgrove has been working as an Architect since 2003 when he graduated with a Bachelor of Architecture Degree from Dublin Institute of Technology. During this time, he gained invaluable experience working in both the public and the private sectors on a variety of large and small scale projects.

In May 2008, he was elected as a member of The Royal Institute of Architects of Ireland. He established Terence C. Cosgrove Architects in May 2009 and is currently involved in a variety of residential projects. His strengths lie in his ability to produce sustainable bespoke buildings based on the requirements of his clients and the individual site context.

His long term interest in sustainable design and his acute awareness of the environment led him to pursue the Masters Programme in Energy Management at IT Sligo where he is currently writing his Masters Dissertation on the subject of “Passive House Design & Construction in Ireland”. Terence is also a “Certified Passive House Designer” as recognised by the Passive House Institute in Germany.

### Brian Campbell - Confederation College, Ontario, Canada

Brian is the Executive Director of Government Relations at Confederation College, in Ontario, Canada. He will be sharing his experiences of installing a €5 million Wood Energy Plant at the college.



## SPEAKERS

### Joe O'Carroll - Imperative Energy Ltd

Joe is Managing Director at Imperative Energy Ltd and has 16 years' experience in the Agri/Energy industry in Ireland, UK, USA, Central America and East Africa, covering senior management roles in both public and private sector organisations.

He is a Board Member of the Biorefinery & Bioenergy Competence Centre, a national R&D programme funded by the Irish Government to drive bioenergy innovation. He is a member of IBEC's Innovation, Science and Technology Committee and is also a Non-Executive Director of StepGreen, an environmental consultancy and Green Belt Panama SA, a Central American Forest Management Company.

He has a first class honours degree in Agricultural Science from UCD and a MBA honours degree from UCC.

He is a recognised thought leader within the bioenergy industry. He undertook an internship at the Department of Energy Resources in Massachusetts while simultaneously participating on an executive development programme at Harvard University.

