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Renewable Energy
Information Office

See The Light 2009 - Energy Efficient Buildings, How Low Can We Go? - 4-5 February 2009

Sustainable Energy Ireland in association with the Royal Institute of the Architects of Ireland are presenting **See the Light 2009 - Energy Efficient Buildings How Low Can We Go** workshop and conference.



This event takes place at *The Ardilaun Hotel, Galway* with a *Passive House Planning Package Workshop* on **Wednesday 4th February** followed by a *one day conference and study tour* on **Thursday 5th February**.

Wednesday 4th February, Passive House Planning Package (PHPP 2007) Workshop

In response to demand from professionals involved in the design of passive houses we will be presenting a one-day Passive House Planning Package (PHPP) workshop. The PHPP package is a clearly structured design software package developed by the world renowned Passivhaus Institut that can be used by architects and designers etc. Based on a series of extensive and interlinked data sheets the PHPP includes tools for:

- Calculating the U-values of components with high thermal insulation
- Calculating energy balances
- Designing comfort ventilation
- Calculating the heat load (including Irish climatic data)
- Summer comfort calculations
- Many other useful tools for reliable design of passive houses

The workshop (limited to just 35 participants) is very much a practical session with Wolfgang Hasper (Passivhaus Institut) assisted by Franz Freundorfer (PHC Passivhaus Consulting) providing a day long interactive workshop and demonstration of the PHPP 2007 including verification of an Irish timber frame passive house.

[Click here for further details](#)

Thursday 5th February, See the Light – Conference and Study Tour

Today, a small revolution is building up in the design and construction of houses. The passive house concept is capturing the imagination of the Irish public and a few visionary entrepreneurs have taken the lead in making it happen. Sustainable Energy Ireland's Renewable Energy Information Office (REIO), with its mission to promote innovation in the field of sustainable energy, is at the forefront of a movement that has brought about a fundamental rethink in the way we design, construct and operate buildings.

The conference will be dedicated to low energy and the Passive House Standard, with leading Irish and European experts including Wolfgang Hasper from the Passive House Institute sharing their expertise and experience. Delegates will be offered a rare and in-depth understanding of the key principles and techniques in developing the ultimate low energy building and learn how renewable energy can be used cost effectively to provide healthy and ecological buildings here in Ireland. Other highlights of the conference include the launch of the second set of SEI passive house guidelines 'Guidelines for Upgrading Existing Dwellings in Ireland to the Passive House Standard' with all delegates receiving a copy of the guidelines. The conference concludes with an optional study tour to a local timber frame passive house.

For further information please contact Paul Dykes on 023 8863393 E pauld@reio.ie.

[Click here for further details](#)

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ITINERARY - Passive House Planning Package (PHPP) Workshop, 4th February 2009

- 09.00 Registration with Tea and Coffee
- 09.30 Welcome and Introduction - *Paul Dykes, SEI REIO*
- 09.45 The Passive House Principles - *Wolfgang Hasper, Passivhaus Institut, Germany*
- 10.00 Energy Balancing - *Franz Freundorfer, PHC Passivhausconsulting, Germany*
- 10.15 An overview of the PHPP
- 10.30 Q & A session
- 10.40 Break
- 11.00 PHPP Workshop
- 13.00 Lunch
- 13.45 PHPP Workshop continues
- 17.00 Final Q & A session. Close



[Click here to Book »](#)

The workshop is very much a practical session with Wolfgang Hasper from the Passivhaus Institut assisted by Franz Freundorfer (Freisinger and PHC Passivehaus Consulting, Germany) providing a day long interactive demonstration of the PHPP 2007 that includes the actual verification of a timber frame passive house.

Workshop Fee

For those delegates who have a copy of PHPP 2007 the rate is **€100**. (*You must bring your own software and laptop*).

For those who will have to purchase the PHPP 2007 the rate is **€150**. (*You must bring your own laptop*).

Places are strictly limited to 35 participants, allocated on a first come basis.

For further details on the conference contact Paul Dykes on 023 8863393 or email pauld@reio.ie.

To book your place go to www.sei.ie/resourcecentre and click on **SEE THE LIGHT 2009**.

PROGRAMME - See The Light Conference, 5th February 2009

Opening Session

Building for Ireland's Future Today: Chair – *Paul Dykes, Sustainable Energy Ireland*

- 09.30 Welcome and Introduction
- 09.45 The Impact of New Legislation on the Built Environment – *Chris O'Grady, Department of Environment, Heritage and Local Government*
- 10.05 An Architects Perspective on Low or Zero Carbon Buildings – *Jay Stuart, DWecoCo*
- 10.25 Are Transition Towns the Model for Sustainable Development? – *Rob Hopkins*
- 10.45 Part L, Building Energy Ratings and the Passive House Standard – *Joe Durkan, Sustainable Energy Ireland*
- 11.05 Q & A followed by break

Session Two

Introducing the Passive House Standard to Ireland: Chair – *John Goulding, Royal Institute of the Architects of Ireland*

11.50 Retrofitting Irish Dwellings to the Passive House Standard – *Tomás O’Leary*, MosArt

12.10 The Practical Experiences in Constructing Passive Houses in Ireland – *Bill Hatchett*, Greenhaus Ireland

12.30 The Passive House in the Commercial Sector - The Tesco Case Study - *Michael McNerney*, Tesco Ireland

12.50 Panel Q & A followed by lunch

Session Three

The Fundamental PassivHaus Components: Chair – *Vivienne Brophy*, UCD Energy Research Group

14.00 Airtightness, the key to creating a healthy, warm living environment – *Andreas Schmidt*, Sigma, Switzerland

14.15 Warm Windows – How the Germans design their eco-products to achieve the Passivhaus Standard – *Franz Freundorfer*, Freisinger, Germany

14.30 How to reduce your primary energy demand in meeting the Passive House Standard – *Damian Mullins*, ERG

14.45 Pushing the Passive Performance towards zero-energy - *Lars Petterson*, Scandinavian Homes

15.00 Panel Q & A session followed by study tour to Lars Petterson’s Timber Frame Passive House.

Conference Fee

Participation in the conference is subject to payment of a registration fee as follows:

€150 per delegate - this includes all refreshments on the day, together with a copy of all presentations on CD after the event.

€100 for RIAI Members and Students

For further details on the conference contact Paul Dykes on 023 8863393 or email pauld@reio.ie.

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