



Engineers Ireland EVENING LECTURE

"ECO Office Building: Realised Project: Navan: Ireland"

Presented by

Mr. Paul Leech, GAIA Ecotecture

Paul Leech manages an architectural practice in Dublin which offers a special level of commitment to the use of renewable energy, the incorporation of natural materials, and the integration of buildings into the environment.

The timber eco-office building is complete and occupied. Some months of monitoring have already yielded some results. Salient features are: 5 storeys of engineered timber structure and fabric: Displacing concrete and steel while meeting many stringent criteria of Eurocode-5, fire safety issues etc.:

Primary-energy use target <50 kWhrs/sq.m per annum: Natural ventilation using a double wall of glazing: Passive solar chimney and a roof-light ventilator on the Venturi principle to assist natural ventilation via an atrium:

Passive solar space heating: Passive cooling: Very strategic, limited, targeted auxiliary heating and cooling:

Thin shell clay rain screen cladding on timber battens: Baubiologie principles adopted: Clay-plaster and paints:

Integral blind systems: cellulose insulation: Eco elevator: All externally-sourced electricity from renewable energy:

Photovoltaics powering servos for intelligent BEMS system and for water pumping of harvested rainwater: Much more.....

This lecture is hosted by Engineers Ireland (Cork Region)

Date: Tuesday 29th January, 2008

Time: 8.00 p.m.

Venue: Rochestown Park Hotel

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