

## **Solar water-heating panel workshop** **With solar expert Kerr MacGregor**

The workshop will allow people to build their own full size efficient solar water-heating panel in one day. All materials and instruction provided. Solar panel is approx 2.4m by 1.2m weight approx 15kg.

- Glendale Community Hall
- 10am to finish
- Sat 22<sup>nd</sup> May 2010
- Investment including materials and instruction £215
- Deposit £50

**There are a few places left on this workshop and we are so lucky to have the experience of Kerr MacGregor so sign up now!**

This investment is approximately 10% of the cost of a bought Solar Water -Panel and will provide you with free hot water during the summer and warm water during the winter and save you energy, costs and co2 emissions. So this is in everyway a winning opportunity and you will be contributing to the Scottish Parliaments target of reducing our fossil fuel use by 50% by 2020.

Most of our electrical energy is used to heat our houses and our water. Having our own solar water-heater panel will give us some measure of energy independence for a long, long time and some protection during blackouts or brownouts. In Northern Europe we have better amounts of sunlight, which is what heats these panels (Yes really, Kerr has the science). Southern Europe has more heat, which is better for photovoltaics.

We may also be entitled to 'Feed in Tariff' payments, FITs, which pay us for each unit used from our personal renewable energy installation. More to come on this.

This is the first project by the Renewables Group for this year. The second is to make available free house energy audits for every homeowner in the area. This will be carried out by Energy Saving Scotland.

Please reserve your **free house energy audit**. We are booking the Energy Auditors for one week in September that will give us 20 free house audits. So don't wait book now!!

To confirm your place on the Solar Water-Panel Workshop send a deposit of £50 to 'The Glendale Trust' with the completed form below and send to:  
Ocean Graham, GT Renewables Group, 6 Feriniquarrie, Glendale, IV55 8WN.  
Contact: Ocean Graham 511351 or Stuart Bell 511308 for further information

## About Kerr MacGregor

### ACADEMIC ACHIEVEMENTS

Published widely in conference proceedings and refereed journals (approx 35 papers).  
Edited proceedings of two international conferences.  
Invited reviewer for international journal (Solar Energy)  
Referee for SERC research applications (1993, 1995, 2000, 2001)  
External Examiner at Cambridge (1989) and Dundee Universities(1985).  
Supervised 4 M.Phil students and 2 Ph D students.  
Won research funding from Science Research Council, Highlands and Islands Enterprise, Scottish Enterprise, Scottish Homes.  
Invited lecturer on solar energy at Universities of Strathclyde, Glasgow Caledonian, Edinburgh, Birmingham and Hyderabad (Visiting Professor), also Mackintosh School of Architecture, Duncan of Jordanstone School of Art, Institution of Mechanical Engineers, Institute of Plant Engineers, RIAS.

### PRIZES AND AWARDS

Won Kemp Medal (Royal Scottish Society of Arts) for solar energy research. (1993). Won best paper prize at *NorthSun 97*, International conference on solar energy at high latitudes, Helsinki, 1997  
Won best poster prize at *NorthSun 2001*, Leiden, 2001  
Won KERR-FRY bursary from University of Edinburgh (2002)

### PROFESSIONAL ACHIEVEMENTS

Member of International Solar Energy Society  
Founder of Scottish Solar Energy Group  
Inaugurator of *North Sun* series of international conferences on solar energy at high latitudes (1984 –2001)

### CONSULTANCY AND COMMERCIAL ACHIEVEMENTS

UK Overseas Development Agency (1981) Design guide on solar water heating. World Bank(1983) Consultant on solar design of buildings in Philippines. Energy Design Advice Scheme (1990-95), Consultant Granted three patents in solar and energy engineering. Consultant on solar energy at The Edinburgh Science Festival (1998, 1999). BP Ltd (2000). Consultant on solar education projects in Scotland. Technical consultant to SOLARTWIN Ltd, Chester (1998-date).  
Director of *MacGregor Solar* consultancy.



Company no: SC327627  
Charity no: SC038741

**Please sign me up for the Solar Water-Panel Workshop on 22<sup>nd</sup> May: Yes/No**

**Please sign me up for the Free house energy audit in September: Yes/No**

<b>Name:</b>
<b>Address:</b>
<b>E-mail:</b>
<b>Phone:</b>
<b>Choose method of investment for Solar Workshop only</b> <b>Cheques made out to 'The Glendale Trust'.</b>  <b>1. Deposit: £50 now + £165 payable at workshop.</b> <b>2. Total Payment now: £215</b>