

**WORKSHOP ON
DIRECT GEOTHERMAL ENERGY FOR VICTORIA/AUSTRALIA
28 September 2011
Elizabeth Murdoch Theatre, University of Melbourne**

Program:

- 1.30 – 2.00 Registration, Coffee
Tour to Beaurepaire Centre Test Facility
- 2.00 – 3.15 Session 1
Welcome: Prof Jim McClusky DVC(Research), Uni of Melbourne) (10 mins)
Opening address: The Hon Mark Dreyfus (15 mins)
What is geothermal energy?: Prof Rachel Webster (Uni of Melbourne) (15 mins)
 - Presentation on geothermal energy and explanation of the various forms it takes.
What energy is currently being produced and what are the predictions.Overview of direct geothermal energy: Prof Ian Johnston (Uni of Melbourne) (10 mins)
 - An overview of direct geothermal energy, how it works, what is required, advantages and disadvantages.Technical fundamentals: Prof Ian Johnston (Uni of Melbourne) (15 mins)
 - The various components (GHE, GSHP, HVAC system),
 - Designing a geothermal system
 - Some simple information on factors affecting performance.International and Local Experience: Stuart Colls (Uni of Melbourne) (10 mins)
 - Examples (homes, large buildings, local and international).
- 3.15 – 3.45 Coffee
- 3.45 – 5.00 Session 2
Hybrid systems: Dr Lu Aye (Uni of Melbourne) (10 mins)
 - A short explanation how solar and geothermal can be used togetherThe cost of direct geothermal energy: Dr Lila Warszawski (Uni of Melbourne) (15 mins)
 - An assessment of costs (current and future) and return on capital (drilling and equipment installation) and running (fuel costs).
 - An assessment of reduction of GHG emissionsGovernment regulatory environment: Dick Gross (Uni of Melbourne) (10 mins)
 - What is needed from government to encourage direct geothermal to be adoptedIndustry bodies and potential subsidies: Dr Don Payne (Direct Energy) (10 mins)
 - AGEAG and other industry/user groups
 - Possible subsidiesThe way forward: (25mins)
 - Discussion
 - What needs to be done to make direct geothermal happen in Victoria and Australia (education, training, industry support, demonstration, advice, research, subsidy)Closure (5 mins)
- 5.00 – 5.30 Tour to Beaurepaire Centre Test Facility
Tour to demonstration site