

Sustainability in the Developing World

**Thursday 21st February
5:10-7:00pm**

Pugsley Lecture Theatre, Queen's Building

<http://www.bris.ac.uk/university/maps/precinct.html>

(Building No. 20 on precinct map)



All welcome, no reservation necessary

Please contact Paul Harper for further information

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FACULTY OF
ENGINEERING

Programme

5:10 Welcome and Introduction

Professor Vala Ragnarsdottir, Head of Environmental Sustainability Research Group

5:20 The Aquatest Research Project

Dr Stephen Gundry, Director of Water and Health Research Centre

Stephen Gundry's presentation will outline the Aquatest Research Programme that has recently received funding from the Bill & Melinda Gates Foundation and the European Union. The programme involves an international, multi-disciplinary consortium led by the University of Bristol that will run until September 2011. The aim is to deliver a water test that can be used widely in developing countries, with a sustainable basis for manufacturing, distributing and marketing the Aquatest device. Close collaboration with researchers and potential users in South Africa and India will help to develop a device that meets users' needs. The World Health Organization (WHO) has estimated that water-borne disease causes 1.8 million deaths annually. 1.5 million of these are children under five. If Aquatest results in just 10% of these people avoiding contaminated water, 180,000 lives could be saved each year.

5:40 Energy for International Development

Dr Mike Tierney, Senior Lecturer in Mechanical Engineering

Mike Tierney's presentation will provide an overview of a new project, funded by the EPSRC's "Energy for International Development" programme. Mike will begin by reviewing the background information, and will introduce one particular biomass route - Jatropha Curcas. He will then outline the technologies owned by consortium members, including the "Seawater Greenhouse" (Aston University) and Adsorption Chillers (Warwick University). Issues for the development of the project will also be identified.

6:00 Engineers Without Borders

Engineers Without Borders UK (EWB-UK) is a student-led charity that focuses on removing barriers to development using engineering. The Bristol branch, one of 16 nationwide, has grown rapidly since November 2003 and now has 253 members. EWB's presentation will provide a brief introduction to their work in the core areas of Talks & Events, Training, Fundraising, Placements, Bursaries and Research. Students will also outline recent and ongoing research projects connected to EWB-Bristol:

- Water-free toilets for areas with scarce water resources.
- Solar thermal collectors and their applications in developing countries.
- Rice husk ash for power generation and as a concrete additive.
- Havana water project - Optimisation and control of Cuba's urban water supplies.

6:20 Buffet and Networking Session