



The Score Project & EWB-UK Research

Project Proposal: 'Staged' Combustion of Moist Wood

Full description of Problem:

Experimental investigation of the 'staged' combustion of moist wood, with pyrolysis and gasification of the solid fuel in one zone and the completion of combustion in the gaseous phase in another, defining the peak temperatures as a function of the air split and the overall excess air.

How the local community will use the proposed solution:

There is an estimated world market for Score of between 60 Million and 2 billion units depending on the end user price. See the web site links for more details.

Estimate of the economic benefit anticipated and plans for training of the local community:

We aim to recruit local universities to train people in the manufacture, maintenance and use of the Score Stove as well as stimulating local business.

Full description of the local situation:

The project is aimed at the Indian sub-continent and sub Saharan Africa with some South American influence. Practical Action can co-ordinate field trips near to their local offices. see web site references for details.

Useful background reading or resources:

<http://www.score.uk.com/research/default.aspx>
<http://www.score.uk.com/research/Shared%20Documents/Pressreleases/poweredbysound.htm>
http://www.score.uk.com/research/Shared%20Documents/Score_Papers/Score_Acoustics08.ppt
<http://www.score.uk.com/research/Lists/Score%20in%20the%20News/AllItems.aspx>
<http://www.lanl.gov/mst/engine/>
<http://www.aster-thermoacoustics.com/indexeng.html>
<http://www.lanl.gov/thermoacoustics/Book/index.html#preface>

Organisation Contact Details:

Engineers Without Borders UK, c/o The Humanitarian Centre, Fenner's, Gresham Road, Cambridge, CB1 2ES, UK
Engineers Without Borders UK is registered in England & is limited by guarantee. Registered Company
No: 4856607. Registered Charity No: 1101849

Name of Organisation	The Score Project
Contact	Paul Riley -- paul.riley@nottingham.ac.uk
Web site	www.score.uk.com
Background information	The Score Project started in March 2006 and phase 1 will complete in 2012. We are aiming to produce over 1 million Score Stoves after 2012 by working with partners to aid exploitation.