Humanitarian projects face the conflicting need of serving a huge number of diverse communities with limited resources and the unavailability of modern mass production. This workshop aims to introduce HKU students (with or without engineering background) to the “massive DIY deployment” approach on how to deliver clean cook stoves to over 2 billion people who are now suffering from smoke of dirty stoves. Participants will learn 3D modelling techniques using Open Source software and be given a hand-on demonstration of the DIY production of “Ring-ring concentrating solar cooker” developed by Engineers Without Borders - Hong Kong (EWB-HK). “The Ring-ring concentrating solar cooker” is made of a super light-weight solar concentrating reflector and can conduct sun tracking, heat storage or electricity generation. After the workshop, participants can build their own advanced DIY solar cookers or other clean cook stoves that adapt to the needs of different local communities that they are serving.

Date: 10 February, 2015 (Tue)
Time: 6:30 p.m. - 8:30 p.m.
Venue: LE 4, Library Extension
Instructors: Mr. Joseph Chan and Mr. Mok Siu-Cheung of Engineers Without Borders – Hong Kong
Registration: [http://2736706.polldaddy.com/s/clean-cook-stoves-design](http://2736706.polldaddy.com/s/clean-cook-stoves-design)

About the Instructors

Mr. Joseph Chan graduated from the University of Hong Kong majoring in Physics and Computer. After that, he further acquired a Certificate of Education, a MSc in Finance and a MBA qualification. He has taught in secondary school for 5 years and conducted business process re-engineering projects in HSBC for 24 years. Significant achievement includes conducting a Managed Print Services project in 2007 for HSBC Hong Kong for achieving an annual saving of over 3 million HKD. Joseph is retired and currently focusing on the development of open source software such as the use of CAD for the Prove-of-Concept process.

Mr. Mok Siu-Cheung is the Vice Chairman of EWB-HK in charge of the Humanitarian Engineering Challenge (HEC) project that focuses on developing and disseminating technical solutions to tackle major humanitarian issues. The recent focus of HEC is to develop an
“Open Source Cookstoves Library” in response to a United Nations’ initiative called “Sustainable Energy for All” (www.se4all.org). Mr Mok received his B.Sc. and M.Phil. degree from the University of Hong Kong.

**About Engineers Without Borders - Hong Kong (EWB-HK)**

The mission of EWB-HK is to support the sustainable development of disadvantaged communities through the empowerment of engineering means, and to develop HK professionals’ capacity to contribute towards this end.

**Pre-workshop preparation**

Participants are suggested to bring along their notebook computers for the hands-on exercises. A compressed file consisting all the relevant examples will be sent to participants before the workshop. Moreover, participants should visit OpenSCAD’s website at "www.openscad.org" before the workshop to:

1. Download the OpenSCAD (at [www.openscad.org/downloads.html](http://www.openscad.org/downloads.html)) in respect to the OS of your laptops; and
2. Briefly go through the documentations at "[www.openscad.org/documentation.html](http://www.openscad.org/documentation.html)".

*If you have difficulty on downloading and installing OpenSCAD, please arrive at the workshop 20 minutes earlier so that the instructors can help you with the installation. Those without any notebook computers are also welcome.*

For enquiries, please contact 2857 8387 or email to cedars-programmes@hku.hk.