

Stove Design Training and WBT-CCT Correlation Study
PCIA-Aprovecho Research Center
November 28 – December 3, 2011
Dhaka, Bangladesh

Day 1 – Wednesday, November 30

Morning Session

- Introductions
 - Elisa Derby, Winrock International
- Introduction to testing stoves - why we test and what we test for
 - Mike Hatfield, Aprovecho Research Center
- Emissions collection from the Portable Emissions Monitoring System (PEMS) and the Indoor Air Pollution Meter (IAP)
 - Ryan Thompson, Aprovecho Research Center
- The Water Boiling Test (WBT)
 - Ryan Thompson, Aprovecho Research Center

Afternoon Session

- Demonstration of data collection and conducting the WBT on a three stone fire under the PEMS
- Participants perform the WBT on project stoves for evaluation of fuel use
- Entering data from tests into Microsoft Excel

Day 2 – Thursday, December 1

Morning Session

- Day 1 recap presentation - volunteer
 - Redwanoor Rahman (Bulbul)
- Review of testing results from Day 1
- Clean combustion and heat transfer
- Design principles for wood cookstoves
 - Mike Hatfield, Aprovecho Research Center
- Visit to local stoves in use and placement of the IAP Meter in the field

Afternoon Session

- Introduction to materials – refractory and insulative
- Make design changes to stoves
- Perform the WBT with project stoves after applying stove design changes.

Day 3 – Friday, December 2

Morning Session

- Day 2 recap presentation - volunteer
 - Md. Shajahan Miah
- Review of testing results from Day 2
- The Controlled Cooking Test (CCT)
 - Ryan Thompson, Aprovecho Research Center
- Aprovecho institutional stove as an example of applied design principles
- The Kitchen Performance Test (KPT) Introduction

Afternoon Session

- Demonstration of data collection and conduction of the CCT on improved cookstoves under the PEMS
- Participants perform the WBT on the project stoves
- Discuss results

Day 4 (Training) – Saturday December 3

Morning Session

- Day 3 recap – volunteer
 - Nazma Akter
- Review of testing results from Day 3
- Perform the CCT and the WBT on cookstoves

Afternoon Session

- Evaluations and testing plan
- Collect IAP meter from field and analyze at results
- Workshop wrap up