Appendix A
Following Phase

Programmed course

Immediate Testing:

Certain insulations still need to be tested.
Wool
Milled rubber foam
Tuza threw a shredder
Sawdust
Wood chips
Magey fibers

Design and testing:

Compare the different design parameters. The use of the standard layers changing one variable at a time shall establish witch design parameters are important. The parameters include aspects of the inner lining such as using a mat to set the pot and leting the seal contain the insulation and the inner lining.

Also a direct comparison of the insulations will be established. The insulations will be compared as stated above. No measurements of R values will be taken, but a comparison between the insulations in the same outer box and inner lining will allow us to determine their relative values.

The design of the seal for an inner box of more suitable material is required. Some time will be dedicated to the use of silicon sealant. Some way of applying pressure to the lid may be required. The different seals will be tested as described above.

Other parameters will be tested as their relevance is noted.

The standard RHC components available are set of plastic buckets used in the tests labeled FOAM. An inner lining used for RBCB tests that can be used in the box used for the RBCB tests and the half drum used for Nixtamal stove.

Survey:

The survey for what can be used in the field must be preformed to get the design parameters for the field test. The survey needs

1. Editing using the latest info learned.
2. About a week of interviews by people dedicated to interviewing on site.
3. Interpretation.

Expected results:

Direct comparison of insulations.

The comparison will quantify the insulation in a standard RHC relative to others. For some insulations we will know how much in gained from extra thickness (when tested in two RHC that use the same inner lining). It shall also provide a direct comparison

between different insulations tested in the same RHC. Also a short report about their availability will be provided.

These RHC will also test certain design parameters such as a soft inner lining and a reflective barrier.

Survey information

The survey will be used to determine the size of the pot for the field prototype.

Future design

A working prototype RHC ready for field testing.

It should have the following characteristics

1) good seal
2) recipe for beans in Guatemala City
3) correct size (from survey)
4) resistance to "field treatment"
5) instructions for use

Not necessarily

1) long lasting
2) inexpensive