

# Permies

## Forums Articles Videos Podcasts

### wood stoves 2.0 can be ...

- rocket mass heaters
- double chamber cob ovens
- rocket stoves
- rumford fireplaces

### rocket mass heaters

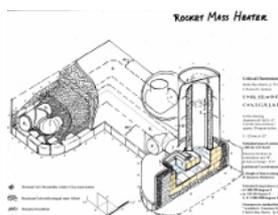
- heat your home with 80% to 90% less wood
- exhaust is nearly pure steam and CO2 (a little smoke at the beginning)
- the heat from one fire can last for days
- you can build a wood burning stove in a day and half
- folks have built them spending less than \$20

A rich article with dozens of pictures and videos: rocket stove mass heater.

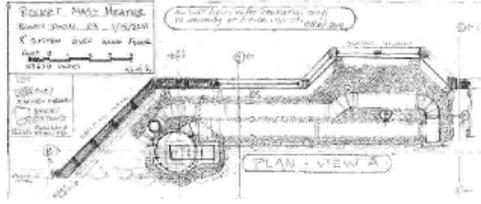


The leading innovators today on rocket mass heaters are Ernie and Erica Wisner. They have built over 700 rocket mass heaters and their recent designs are superior to the designs of systems five to ten years ago. They are the moderators for the wood burning stoves forum. These are their recent designs:

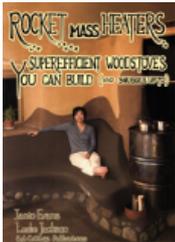
6 inch rocket mass heater plans  
\$20 for a 13 meg PDF of detailed plans and instructions



8 inch rocket mass heater plans  
\$50 for a 26 meg PDF of  
detailed plans and  
instructions



Check out all of the wood burning stoves offerings from Ernie and Erica.



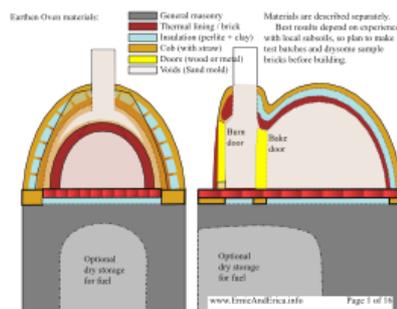
Although a lot has happened since this book was written, this book still has a lot of good information. It has explanations on how this type of wood burning stove works in general.



Rocket Mass Heater Book

**double chamber cob oven**

double chamber cob oven plans  
\$20 for a PDF of detailed plans  
and instructions



Relevant discussion in the wood burning stoves forum:

- double chamber oven questions
- double chamber cob oven
- cob ovens
- rocket stove in a earth oven

## rocket stoves

A rocket stove is the predecessor to the rocket mass heater and is designed for cooking food. They are for outdoor use only, although folks in some third world countries use them indoors because they are so much cleaner and more efficient than what they used before.

Erica Wisner has created an interesting rocket stove that looks a bit like a stump.



A thread in the wood burning stoves forum has a lot of pictures of different types of wood burning rocket stoves: a whole lot of rocket cook stoves



A lot of commercial rocket stoves are starting to come onto the market and they all seem to be missing parts that seem pretty essential to me. And then I heard about the kelly kettle - this seems to be an actual innovative improvement over all the others: the kelly kettle The idea is that the water sits inside the heat riser. I've seen these in use, and they boil water very fast with just a couple of twigs.



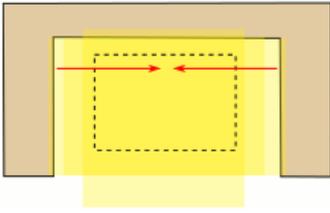
## rumford fireplace

To better understand the rumford, you should first consider the **traditional fireplace** (aka "the oxbow cooker") which is designed to get heat to go outside so you don't get too hot while cooking on the

daily-ish email sign-up

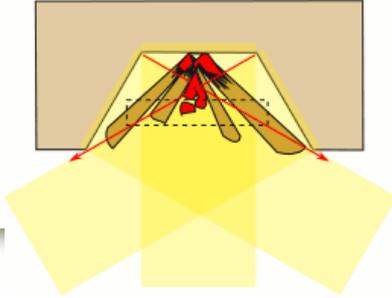
Email:

fire.



- Permaculture stuff
- PNW stuff
- Missoula stuff
- I wanna help with Paul's devious plots on world domination

Submit



The rumford fireplace design is to maximize the radiant heat going into the room.

Thanks to Erica Wisner for use of these images. She has a massive page on this topic called [fire science](#).