



Newsletter of

Ceramics in Environmental Health & Development

December 2020

ReidHarvey7734@gmail.com

- cc: RHarvey@TAMCeramics.com

Safe drinking water and clean cookstoves, for the poor, by the poor: sustainable within their economy

Three small books will aid in the capacity building of potters. The production processes of both the water filters and the cookstoves are simple, and the books are oriented to trainers, with a background in ceramics, who will train the potters. Their attention to detail will allow oral training of potters, most of whom have never had the opportunity of a formal education.

The books are available through Lambert Academic Publishing, at, www.Morebooks.com. Their titles, searchable as such, are: 1. *Environmental Health and Development for All*, 2. *Plaster of Paris Techniques*, and, 3. *Pressing Ceramics with Air-Release*.

The first of these books expands upon the presentation of the first link, following, *Ceramics in Environmental Health*. While the capacity building of potters starts with model and mold making, the second book will serve as training material for this. Thirdly, training in pressing ceramics will make possible the production of hundreds of exact duplicates every day.

There is a need among those NGOs and agencies who embrace this approach to environmental health and development, to reach out to administrators of those institutions having ceramics within their curricula. Most common among courses in ceramics are those of fine arts, and certainly, there will be a need for ceramic artists among the trainers. Ceramic artists are familiar with much of the necessary science and design.

There will also be a special need for ceramic scientists and engineers. Their education suggests the kinds of improvements and progress that will make the interventions described even more vital.

Go to these links for background:

Cut and paste as necessary. 1. *Ceramics in Environmental Health*: https://drive.google.com/file/d/1vV19ojCQPX-ZOt_A7U3U-x1XqgG6zl7TG/view?usp=sharing
2. *Building Potters' Capacity Leads to Community Self-Sufficiency*: <https://drive.google.com/file/d/1B1krMP3xk7ZSLpX-naZq91Re4xOtFYfK/view?usp=sharing>
3. *Filtering safe drinking water through granulated ceramics*, January 2019, *Ceramic Bulletin*, journal of the American Ceramic Society, http://tamceramics.com/wp-content/uploads/2019/01/TAM-feature_01-02-2019.pdf

Natural and human resources tend to be there but the capacity is lacking

All over the developing world there are traditions of production using clay, of such ceramic products as water containers, cook pots and construction brick. These traditions of production go back many generations, in the forming by hand of these products. The potters producing these tend to be highly professional and eager to learn about new products and processes.

Once these potters are trained in the simple techniques of model and mold making, they will be able to quickly form exact

duplicates. Their communities tend to be low-income and to begin with the most sensible products within their economy will be 'candle' water filters and insulating rocket stoves. Both of these environmental health interventions are seriously needed, to prevent waterborne and respiratory illnesses and contribute resilience and self-sufficiency to their communities.

It is widely acknowledged by public health professionals that there are no technologies of either water treatment or clean cookstoves that are affordable to the poor. Should it not be clear that the only way to get the poor these interventions is by their own means? That the natural and human resources tend to be

abundant all around them may suggest that the one and only sensible approach to remediation is through their capacity building. The poor tend to be entirely capable.

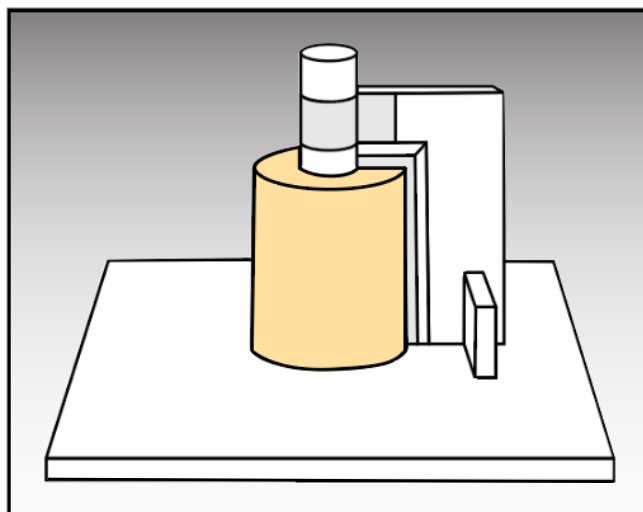
There is a presumption that once the poor are trained in what is sustainable within their economy, and told that they are capable, they will be sufficiently motivated, to help in bringing about some necessary behavior change, e.g., handwashing. Capacity building can start with the ubiquitous potters.

Partner with TAM Ceramics!

There is an opportunity to make sustainable, point-of-use water treatment large-scale; effective, low cost and user-friendly. TAM Ceramics water filter media of granulated ceramics, coated with silver, will make possible community-sized water filters. Safe drinking water will be within easy walking distance of homes.



WATER FILTER MEDIA OF GRANULATED CERAMICS
4511 Hyde Park Blvd., Niagara Falls, NY 14305 USA
Email: customer.service@tamceramics.com



The circular modeling template will allow the forming of candle filters or their models. It will also allow the forming of such models as those of glazed plates and bowls.