

Résumé

Anthony Reid Harvey

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Career Summary

Twenty-six years as a ceramic industrial designer, training for production and implementation of the sustainable interventions of WASH, indoor air quality & micro-industry. I have managed projects across sub-Saharan Africa, and Southern Asia, in partnerships with governments and INGOs. These projects have been nature-based for capacity building and sustainability and have addressed sixteen of the seventeen Sustainable Development Goals - SDGs. Emphasis is on resource intensive development using widely abundant human and natural resources.

Competencies

Development of technologies of 1) water filter media and systems of granulated ceramics, silver treated, 2) highly energy efficient insulating rocket stoves, and 3) sanitary stoneware toilets, a stepping-stone to capacity of industrialization. Skills of these technologies make possible the production of refractories for high temperature kilns and furnaces, heretofore a barrier to industrialization.

Ceramic Water filters for safe drinking water. Development for localized production and implementation of human-centered, point-of-use water treatment, supporting nature-based technologies. Included are water filters of granulated ceramic media as well as household candle water filters. Both give water treatment to the highest standard. Note that the U. S. Army has green lighted the fabrication and rapid deployment of these PPB water filters for disaster preparedness.

Indoor Air Quality. Training for production of highly energy efficient insulating rocket stoves that minimize indoor air pollution. Insulating rocket stoves of renewable biomass are readily adaptable to the use of electricity and non-solid fuels. Locals are trained to produce and use renewable biomass disks as fuel. The environmentally destructive production and use of charcoal or carbonized fuel is eliminated.

Policy and Governance

I have closely followed the proceedings of the WHO Household Water Network from its inception in 2003 and applied their guidance in my work. I have interfaced with senior staff of the WHO, INGOs and like-minded organizations, several governments, academia, and the private sector. E.g., the Kenya Ministry of Health, the Kenya Industrial Research and Development Institute and several universities in Western New York.

Program Development and Implementation

Programs have focused on developing community resilience. Sustainability is key, with affordability and user-friendliness, including easy maintenance. Reliance is on local, natural resources that tend to be abundant. Human resources start with the ubiquitous, skilled potters who hand-form water containers and cook pots. Capacity building starts with quick forming techniques of duplicates, using their models and molds. Prospective entrepreneur investors depend on design and a pool of skilled potters for upgrading products to a more lucrative market.

Policy Development

Policy development experiences have interfaced with senior staff of the WHO, INGOs and like-minded organizations, several governments, academia, and the private sector. E.g., the Kenya Ministry of Health, and several universities in Western New York. My work is in the training of locals to produce ceramic candle water filters and insulating rocket stoves. Trainings in Nepal and Kenya. In both countries the candle water filter systems went into 5,000 homes of informal settlements. UNICEF Nepal placed schools-sized systems of the candle filters in 800 schools of three rural districts. Training and partnerships in energy efficient stove production has been in Rwanda, Burundi, Tanzania, Guinea and numerous other countries of sub-Saharan Africa. An essential outcome is the fostering of livelihoods and building community resilience.

Recent Work History

- Administrator, www.CeramicsCreatesChange.org August 2025 to present
- Managing Director, Africa Prosperity Inc., www.resiliencie.com April 2022 to present
- Work affiliation with the WHO Household Water Network, <https://www.hwts.info/network> and the WHO designated, Clean Cooking Alliance, <https://cleancooking.org/> 2003 and 2011 respectively, to the present
- Senior Scientist, TAM Ceramics Group of NY, LLC. Developed production methodology of water filter media of granulated ceramics, coated with silver. Undertook requisite research and lab procedures in optimizing reduction of pathogens and leaching of silver. Compiled and distributed information. Aug. 2017 to Feb. 2020
- Consultant Ceramist, Alfred University, New York State College of Ceramics. Optimization of water filter media of granulated ceramics, coated with silver, identifying parameters of research and empirical needs, in collaboration with senior faculty of ceramic engineering. July 2015 to August 2017
- Consultant Ceramist. The Kenya Industrial Research and Development Institute. Identified ceramic products & processes. Familiarized coworkers with the water filters & insulating rocket stoves. July 2014 to July 2015

Education

- B.F.A., Ceramic Industrial Design, Alfred University, New York State Collage of Ceramics May 1988
B.F.A. exhibition, Geometric Interaction, mold cast porcelain and mold blown glass. May 1988

Publications and Presentations

- The presentation, *Insulating Rocket Stoves – Biomass, Electric and Non-Solid*, Ethos 25 Conference (per the agenda: <https://www.ethoscon.com/ethos-2025-agenda> - Sunday, January 26, 11:45 Breakout Session 2B). What's shown here is pending the availability of the mp4 video presentation: https://drive.google.com/file/d/140Pj8Q77AfC3NMU_tHoQcyvhFF0k0zAb/view?usp=sharing Jan. 26, 2025
- Article in Visions for Europe, entitled, Resource Intensive Industrialization. https://drive.google.com/file/d/13YOimoRdacP3vqJAWWKbuhMNd4Yw_G9G/view?usp=drive_link Dec. 2022
- Presentation to the EU Tech Chamber Manufacturing Alliance, Industrialization from the Grassroots. See description of additional developments at the links of the last slide. <https://drive.google.com/file/d/1UDscBPG7lbqm9wpFwfEaCGdWiwaKt3qT/view> Oct. 4, 2022
- Presentation, the annual conference of the WEDC, Sanitary Stoneware Toilets, Production Closer to the Need, <https://hdl.handle.net/2134/16941193.v1> Sept. 14, 2021
- Three books for capacity building of developing world ceramists, available at, www.morebooks.shop.
 - 1) *Environ. Health & Development for All* <https://www.morebooks.shop/shop-ui/shop/product/9786200787880>
 - 2) *Plaster of Paris Techniques*, <https://www.morebooks.shop/shop-ui/shop/product/9786200787880>
 - 3) *Pressing Ceramics with Air-Release*, <https://www.morebooks.shop/shop-ui/shop/product/9786200550026>
- The article, *Filtering Safe Drinking Water through Granulated Ceramics*, *American Ceramic Society Bulletin*, http://tamceramics.com/wp-content/uploads/2019/01/TAM-feature_01-02-2019.pdf Jan. 2019
- *Ceramics in Developing Countries*. Featured in the *American Ceramic Society Bulletin*. Dec. 1991

Distinctions

- Exhibition of the IDE Nepal, pottery purifier system, the Cooper Hewitt National Design Museum of the Smithsonian, New York City. May to Sept. 2007
- Vice Chair and Secretary, American Ceramic Society, Design Division. 1994 and 1995
- Voice of America interview, featuring the manuals, *Pressing Ceramics with Air-Release*, and *Plaster of Paris: Techniques from Scratch*. May 1993