

History of the Water Pasteurization Indicator (WAPI)

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How can one determine if heated water has reached 154°F? In 1988, **Dr. Fred Barrett** (USDA, deceased) developed the prototype for the Water Pasteurization Indicator (WAPI). In 1992, **Dale Andreatta**, a Ph.D. student at Berkeley at the time of the WAPI development and a Ph.D. from University of California joined forces with *Solar Cookers International* and finished the design of the original WAPI.



Dr. Fred Barrett



Dr. Dale Andreatta

Dr. Robert Metcalf, one of the original founders of Solar Cookers International (SCI) and a co-founder in 2010 of the International Water and Health Alliances, is a retired professor of Microbiology at California State University, Sacramento. Robert has traveled extensively on solar cooking and water testing, solar water pasteurization projects. He has confirmed that contaminated water need only be heated to 149°F / 65°C to make it safe to drink, whereas it is commonly thought that contaminated water must be boiled at 212°F / 100°C.



Dr. Robert Metcalf

In 2010, **Robert (Bob) Tait** came on the scene gathering research and ideas to enhance the WAPI. Currently he has donated over 70,000+ WAPI units around the world to those in need of safe water. Dale Andreatta and Dr. Robert Metcalf, both Ph.D.'s, were involved in creating the WAPI. They shared their ideas with Bob Tait who improved, intensified, and perfected the device to where the co-creators agreed and requested Bob to make WAPIs for them. They were impressed and pleased that **WAPIs for the World** has dedicated volunteers who donate their time by assembling, by-hand, the small (3 inches in length) WAPI made to the highest standard.



Robert (Bob) Tait

The WAPI is extremely useful for people who currently boil water to make it safe for drinking, where pasteurization is at 149°F. Our unit melts at 154°F which decontaminates the water and anything in it. The WAPI clearly indicates when a safe pasteurization temperature has been reached. It also saves valuable-fuel which is being wasted by excessive heating, deforestation, urban air pollution and other energy-related environmental effects. Protect yourself by carrying a WAPI in an emergency pack when camping, hunting, bicycling or hiking on the back roads.



https://sealimited.com/professional_profile/19

http://solarcooking.wikia.com/wiki/Bob_Metcalf

WAPIs for the World.com