



Secular Maryland

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**HB 1060 - FAV**

**Cremations - Natural Organic Reduction - Regulation**

Dear Chair Pena-Melnyk, Vice-Chair Cullison, and Members of the Health and Government Operations Committee,

According to Business Regulation §5-101(e) cremation is defined as “the process of reducing human remains to bone fragments through intense heat and evaporation, including any mechanical or thermal process.” The phrases “intense heat and evaporation” and “any mechanical” are not well defined and as a result it remains unclear which options other than burial and flame cremation, if any, are allowed for disposing of corpses. Cremation usually occurs within the range of 1400 to 1800 degrees Fahrenheit. Two other reduction methods, resomation (also known as alkaline hydrolysi) and natural organic reduction (a.k.a composting), occur at lower temperatures. The former relies on a chemical process and the latter on a biological process. Both methods should be clearly and explicitly authorized. Secular Maryland supports this bill to authorize organic reduction and we would also support authorizing resomation.

Natural organic reduction uses no hazardous chemicals. In 2019, Washington became the first state to legalize natural organic reduction as a post-life option. The remains are placed on carbon-rich materials, like sawdust and straw, together with a nitrogen rich material, such as alfalfa, moisture, and circulating air. Bacteria and the enzymes they release break down the tissue for at least one month (4-7 weeks). Metal fillings, pacemakers, and artificial limbs are removed. A cubic yard of soil plus bones remains (1.5 to 2 cubic yards total). The resulting soil meets safety standards set by the U.S. Environmental Protection Agency for such contaminants as heavy metals. Commercial processes would likely also process the bones. Composting temperature reach 120-160 degrees Fahrenheit which is sufficient to kill off dangerous pathogens. Someone who dies from a prion or contagious disease would not be a candidate for recomposition.

Traditional cemetery burial is associated with the toxicity of embalming chemicals and consumes wood, metal, and concrete as well as land and water to properly maintain burial grounds. Over 500 pounds of carbon dioxide are released into the atmosphere by each cremation despite efforts to minimize emissions. Demand for cremation, which tends to be less expensive than burial, now exceeds traditional burial, surpassing 50% in 1996. Yet cremation releases mercury vapors from dental amalgams, dioxins, and particulate matter.

Respectfully,  
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