

# Review of: "Early Renaissance Concepts of Time and the Invention of Mechanical Clocks"

Richard Sauerheber<sup>1</sup>

<sup>1</sup> Palomar College

**Potential competing interests:** No potential competing interests to declare.

I enjoyed reading the paper. I am not sure that all the Condemnation points need to be included in the article because the whole point was merely to show that the controversy may have influenced and inspired the development of mechanical clocks to address the debated issue. Please consider shortening this section.

Newton's correct description of true time and space was exceptional and indicates that time and space have always existed but are unique and absolute entities. Any single event takes a single amount of time, while all measurements of time are relative and subject to error (whether methodologic, as with various types of clocks, or human errors of perception) (Newton, Sir Isaac, *Mathematical Principles of Natural Philosophy*, in: **Great Books of the Western World**, R. M. Hutchins, editor in chief, **Newton Huygens**, volume 34, University of Chicago, 1952).

Modern theorists now attempt to conjoin space and time into a single mysterious variable, and that has been problematic. There came a time when the universe of matter existed. Christian people know this as Creation, and secular scientists also agree that the universe of matter did not always exist. Thermodynamic principles indicate that the total of mass and energy has always been the same magnitude, and to me, that points to God being the source of all matter).

Newton wrote that the solar system is akin to a vast wound clock, and this could be a statement worth considering in the paper. Indeed, even today, Mercury orbits approximately 1,000 times while Earth orbits about 250 times, all while Pluto orbits once, each like huge hands on a vast clock.

The following grammar changes should be made:

The Symbolism of the Mechanical Clock, Paragraph 3:

compared a mechanical clock

The Sand Clock, Paragraph 3: improvement of naval technology [delete a]

Paragraph 4: emergence of naval technology [delete a]

Paragraph 4: devoted to seamen technology [delete a]

Paragraph 6: regulating sailors' activity

