Mary Ann Styer

November 25, 2013

Mary Ann Styer, 82, of Lancaster, PA, died on Saturday, November 23, 2013 at Hospice & Community Care, Mount Joy. Born in Lancaster, she was the daughter of the late John D. and Catherine Grossman Tshudy, and wife of the late Donald B. Styer, Sr.

Mary Ann graduated from J.P. McCaskey High School and just last year attended her 60th class reunion. She was a homemaker and member of Grace E.C. Church, Lancaster and the 4C's Club. Mary Ann enjoyed crocheting, vacationing at Cape May and spending time with her grandchildren.

She is survived by a son, Donald B. Jr., husband of Sharon Cole Styer of Lancaster, a daughter, Catherine E.,wife of Michael Cummings of Mt. Joy, six grandchildren and one great grandson. She was predeceased by four brothers: John, Richard, Paul and Charles Tshudy.

Relatives and friends are invited to attend Mary Ann's Celebration of Life Funeral Service on Friday, November 29, 2013 at 11:00 a.m. at Grace E.C. Church, 415 S. Shippen Street (corner of Shippen and Locust Streets) Lancaster, with the Pastor Mark Ammerman officiating. The family will greet friends at the church from 10:00 a.m. until time of service. Interment will take place in Riverview Burial Park.

In lieu of flowers, Memorials in Mary Ann’s name may be made to Hospice & Community Care, P.O. Box 4125, Lancaster, PA 17604-4125.

Tribute Wall

Mary Ann Styer

October 22, 2023 at 11:34 PM

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This argument for the seoncd law vs evolution tension is correct in its generality.But there is a more interesting comparison to make by making the distinction between preparing a low entropy state (what Sean was really talking about) and maintaining a low entropy state.The 2nd law applies to the former. The latter is quite different and the calculation of entropy production per UNIT TIME using T_{sun} and T_{earth} is really related to the latter.As Sean notes, the existence of life (say at a steady state) is a low entropy state lower than thermal equilibrium by some amount Delta S. To prepare such a state, of course, some entropy must have been produced elsewhere.To maintain a system in a non-equilibrium steady state such as this, it turns out that one needs a constant RATE of entropy production elsewhere. The T_{Sun} and T_{earth} argument really answer this question of rate.Crucially, the RATE of entropy production to maintain a system in a low entropy state is NOT simply directly related to the low entropy of that system it depends on the kinetic constants between states of that system in a sense. For example, that required RATE of entropy production can be made as high as one wishes by scaling all kinetic constants without affecting the low entropy state one is able to maintain.It would be a very interesting and perhaps difficult generalization of Sean's post here to estimate what RATE of entropy production is needed to maintain life of given entropy on earth and compare that RATE to the Q (1/T_{sun} 1/T{earth}) quantity..

Mario - December 21, 2015 at 11:33 PM