1056-Z1-387 **Christopher M Davis** and **David G Taylor*** (`taylor@roanoke.edu`), Department of Mathematics, CS, and Physics, 221 College Lane, Salem, VA 24153. *The Harmonic Series and Biconvergence: One step forward, two steps back.*

Recent interest in the harmonic series has spawned double-, triple-, and multi-harmonic series, in addition to variants of q-series. Drawing upon the harmonic series and its counterpart, the alternating harmonic series, we have forged a wonderful series using the positive real line as a basis for adding and subtracting elements of the harmonic series. The number of terms used in each step is given by powers of a fixed base $x \geq 1$. In this talk, we construct a formal illustration of the biconvergence of these series, define what it means to sum a non-integer number of parts, and prove some very interesting results regarding our series. (Received September 03, 2009)