1125-VB-1315 **Bryan Dawson*** (bdawson@uu.edu). A New Extension of the Riemann Integral. Using the hyperreals, a new extension of the Riemann integral is introduced in which every bounded function is integrable and for which there exists a function $g : [0,1] \rightarrow \mathbf{R}$ simultaneously satisfying (1) g is integrable, (2) g is unbounded on every subinterval of [0,1], and (3) g is identical to its average value function. (Received September 16, 2016)