1046-01-720   **Robert E. Bradley*** (`bradley@adelphi.edu`), Adelphi University, Dept. of Mathematics & Computer Science, Garden City, NY 11530. *Saving the phenomena: limits from Maclaurin to Cauchy.* Preliminary report.

The modern definition of the limit and its success in providing a foundation for calculus can be traced to Cauchy, beginning with his *Cours d'analyse* of 1821. I will argue that we may interpret Cauchy's *Cours* as being as much concerned with preserving contemporary practices in analysis as with bringing about a foundational revolution. In this sense, at least, there is a parallel to be drawn with Maclaurin's 1742 *Treatise of Fluxions*, in which the limit concept is also employed. I will examine this connecting thread in these two works. (Received September 10, 2008)