1009-01-55   **C Edward Sandifer*** (`sandifere@wcsu.edu`), Department of Mathematics, Western Connecticut State University, 181 White Street, Danbury, CT 06810. *Euler and Series.*

Of over 800 published works by Euler, the Editors of the Opera Omnia classify 81 of them, roughly 10%, as works on series. Those works divide naturally into a number of threads, for example, zeta function, infinite products, continued fractions, trigonometric series, and the Euler-Maclaurin formula. However the threads intersect to form a rather tangled web. We will trace some of these threads, as time permits, and try to untangle them a bit. (Received July 31, 2005)