1046-33-404Timothy B Flowers* (tflower@clemson.edu), Department of Mathematical Sciences, Box
340975, Clemson, SC 29634-0975, and Neil J Calkin. Asymptotics of Bernoulli, Euler, and Strodt
Polynomials.

It is well known that both Bernoulli polynomials and Euler polynomials on a fixed interval are asymptotically sinusoidal. A recent paper by Borwein, Calkin, and Manna uses an idea of Strodt to generalize Bernoulli and Euler polynomials and view them as members of a family of polynomials. We used these ideas to study the asymptotics of non-uniform Strodt polynomials. We will describe the experimental process which led to several conjectures. In addition, we will show how experiments suggested the methods used to prove some of these results. (Received August 31, 2008)