

**Meeting:** 1006, Lubbock, Texas, SS 5A, Special Session on Recent Advances in Complex Function Theory

1006-30-65            **Eric M. Murphy\*** ([Eric.Murphy@sbcglobal.net](mailto:Eric.Murphy@sbcglobal.net)), 3320 28th Street, Lubbock, TX 79410.

*Discrete Complex Earthquakes.*

The concept of one-parameter or “real” earthquakes as transformations on points in the Teichmüller space of a hyperbolic Riemann surface was initially developed by Thurston and subsequently extended to “complex” (two-parameter) earthquakes by McMullen. These earthquakes have proven useful in solving such problems as the Nielsen Realization Conjecture and investigations into Thurston’s boundary of Teichmüller space. It has been shown that Thurston’s real earthquakes can be approximated by discrete earthquakes using circle packings. In this presentation we will discuss approximating the broader class of complex earthquakes using circle packings. (Received February 02, 2005)