1077-37-2675 **Clinton P Curry** (ccurry@huntingdon.edu), Dept. of Mathematics- Huntingdon College, Montgomery, AL, **John C Mayer*** (mayer@math.uab.edu), Dept. of Math - UAB, Birmingham, AL 35294-1170, and **E. D. Tymchatyn** (tymchat@math.usask.ca), Dept. of Math, University of Sakatchewan, McLean Hall, Saskatoon, Sask. S7N 5E6, Canada. *Buried Points in Rational Julia Sets Have Full Geometric and Dynamical Measure.*

The Julia and Fatou sets of a rational function R on the Riemann sphere split the sphere into two fully invariant subsets, closed and open, respectively, the former unstable or chaotic in its rational dynamics, and the latter stable (but possibly empty). Assume the Fatou set is nonempty. In that case, a second, less well-known, split of the Julia set $J = J(R)$ itself is into the set of buried points $\mathrm{Bur}(J)$ and the set of non-buried points (the former possibly empty). A point in the Julia set is *buried* iff it is not on the boundary of any component of the Fatou set. If $\mathrm{Bur}(J)$ is nonempty, it is a dense G_δ subset of J, thus "fat" topologically. We prove in this talk that $\mathrm{Bur}(J)$ is also "fat" in measure. If μ denotes the measure of maximal entropy supported on J, then $\mathrm{Bur}(J)$, if nonempty. is of full μ-measure. If ν denotes conformal measure supported on J, then, in those cases where the conformal exponent is unique, again $\mathrm{Bur}(J)$, if nonempty, is of full ν -measure. (Received September 22, 2011)