1087-46-173   **Daniel Freeman*** (dfreema7@slu.edu), **Edward Odell** (odell@math.utexas.edu), **Bunyamin Sari** (bunyamin@unt.edu) and **Thomas Schlumprecht** (schlump@math.tamu.edu). *Equilateral sets in uniformly smooth Banach spaces.*

Let X be an infinite dimensional uniformly smooth Banach space. We prove that X contains an infinite equilateral set. That is, there exists a constant $\lambda > 0$ and an infinite sequence $(x_i)_{i=1}^{\infty} \subset X$ such that $\|x_i - x_j\| = \lambda$ for all $i \neq j$. (Received December 03, 2012)