1003-30-1682   **Roger W. Barnard** (`barnard@math.ttu.edu`), Department of Mathematics and Statistics, Texas Tech Univeristy, Lubbock, TX 79409, **Casey R. Hume*** (`chume@math.ttu.edu`), Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79409, and **G. Brock Williams** (`williams@math.ttu.edu`), Department of Mathematics and Statistics, Texas Tech University, Lubbock, TX 79409. *An Extremal Problem for Convex Domains.*

We will discuss our progress on a problem posed by R. Fournier, J. Ma, and S. Ruscheweyh on determining the sharp minimum bound for the functional $\dfrac{|a_4| - 2/(3M)}{|a_2|}$ for convex analytic functions $|f| \leq M$. This has interesting consequences in generalizing M. Chauqui and B. Osgood's results on the Nehari class. (Received October 06, 2004)