In a foundational paper, Coifman, Rochberg and Weiss relate the norm of the commutator $[b, T]$, where $T$ is a Calderón-Zygmund operator, with the $BMO$ norm of $b$. In this talk we discuss a recent weighted version of this result. Specifically, we study the case when the commutator acts between two weighted Lebesgue spaces $L^p(\mathbb{R}^n; \mu)$ and $L^p(\mathbb{R}^n; \lambda)$, where $\mu$ and $\lambda$ are Muckenhoupt $A_p$ weights. A first result in this direction was obtained by Bloom in 1985, for the Hilbert transform. We discuss an extension of Bloom’s result to all Calderón-Zygmund operators, using dyadic methods. (Received September 02, 2015)