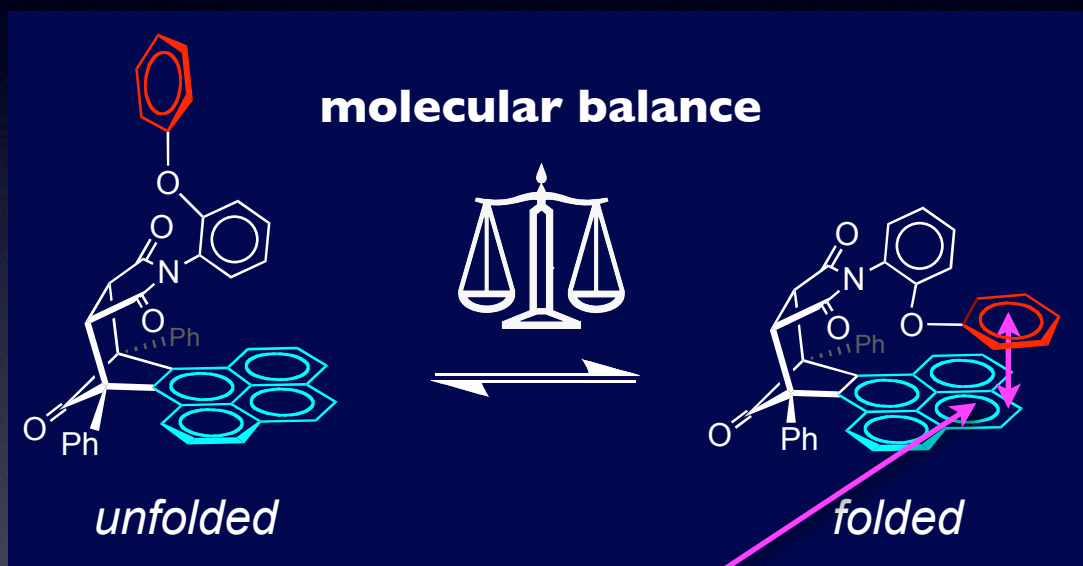


# New model systems for the measurement of weak non-covalent interactions

**Ken D. Shimizu**, Department of Chemistry and Biochemistry,  
University of South Carolina, Columbia SC 29208



**Goal:** to measure and study weak non-covalent interactions such as hydrogen bonding and arene-arene interactions using molecular balances.



Non-covalent face-to-face arene-arene interaction

$$\Delta G_{\text{arene-arene}} = -RT \ln \frac{[\text{folded}]}{[\text{unfolded}]}$$

