Recent efforts by our lab to fold single polymer chains into nano-structured particles will be discussed. Specifically, we will highlight the use of SEC with multiple modes of detection as a reliable method to measure the change in solution conformation of polymer chains when folded via intra-chain interactions. The ability to unfold and refold these structures by utilizing dynamic covalent interactions will be discussed, along with efforts to use multiple orthogonal intra-chain interactions in one system to arrive at well-ordered folded structures.

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