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**Synergy of Intermolecular Forces in Self-Assembly of Propargylic Alcohols.** Michal Sabat, Marilise A. Hyacinth and Lin Pu, Dept. of Chemistry, Univ. of Virginia, Charlottesville, VA 22904.

We will discuss some of our recent findings indicating that the functional groups of propargylic alcohols not only make their self-assembly possible but also allow for a finely tuned cooperation (synergy) of interactions on a scale rarely observed in other supramolecular systems. For instance, diaryl-substituted chiral propargylic alcohols can form cyclic hexameric molecular assemblies as a result of the cooperation between three major intermolecular forces: the O-H...O hydrogen bonding, the C-H...F hydrogen bonding involving organic fluorine, and the  $\pi - \pi$  stacking interaction between the pentafluorophenyl and phenyl rings. We believe that this synergy of intermolecular forces could be utilized in a variety of applications, including chiral recognition and discrimination. Relevant structures and some theoretical aspects of the synergy will be discussed.