

## W0053

**Supermolecules a Quartet?** Brock Levin, Christer Aakeroy, Dr. John Desper, Dept. of Chemistry, Kansas State Univ., Manhattan, KS 66506, USA.

Here we present the synthesis and characterization of several 2-amino pyrimidines appended with a carboxyphenyl functionality. These types of molecules are particularly attractive because they contain two heterocyclic ring nitrogen atoms (1 and 2) of different hydrogen bond acceptor strength, as well as a carboxylic acid (3) capable of forming heterodimeric interactions e.g. to amides and oximes. Additionally, these molecules have been used as co-crystallizing agents with a variety of carboxylic acids and carboxamides. If the carboxylic acid forms an intermolecular hydrogen bond, the molecule is perfectly suited to serve as the hub for quaternary supermolecules with predictable connectivities.

