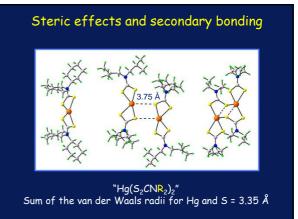


Supramolecular Assembly Based on Emerging Intermolecular Interactions of Particular Interest to Coordination Chemists

> Edward R.T. Tiekink Research Centre for Crystalline Materials Faculty of Science and Technology





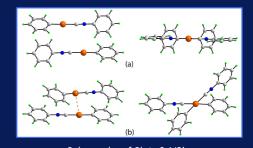
## Molecular packing

Well known...

Hydrogen bonding Halogen bonding

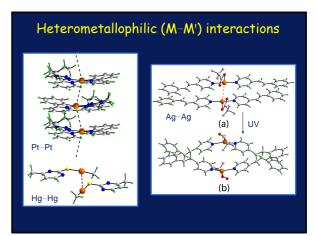
"Emerging"

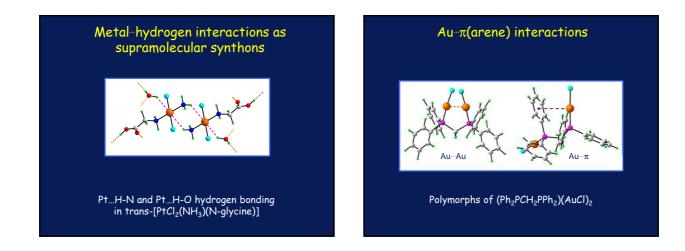
Secondary bonding M...M interactions M...H interactions Interactions involving chelate rings Aurophilic (Au-Au) interactions

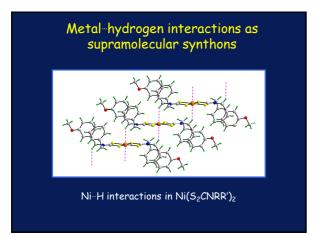


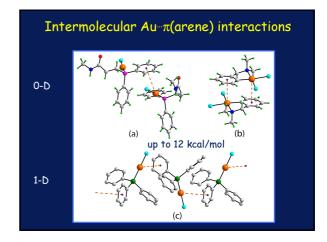
Polymorphs of PhAuC=NPh (a) to (b) Touch of a needle / mechanical grinding

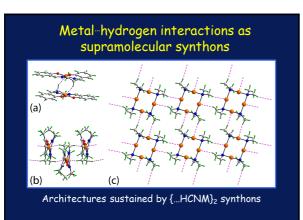


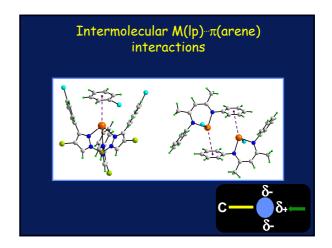


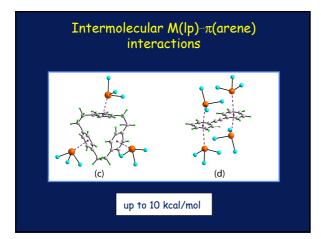


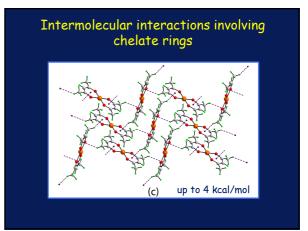


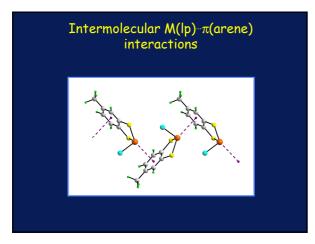


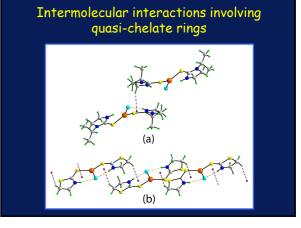


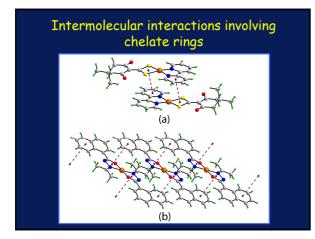












## Conclusions

More than hydrogen bonding Energies of "emerging" interactions similar

