## Oral Contributions

[MS10-02] Evaluation of molecular crystal structures using Full Interaction Maps Tjelvar S. G. Olsson, Peter A. Wood and Colin R. Groom

Cambridge Crystallographic Data Centre, 12 Union Road, Cambridge, UK.

The specific crystalline form of a compound has a significant impact on its solid state properties. A key requirement for chemists developing crystalline materials is therefore to understand and evaluate the crystal form under investigation.

Using a technique already established for identifying favourable interaction sites in protein pockets we calculate molecular interaction maps within the context of a crystal structure.

Using three industrially-relevant compounds – sulfathiazole, anastrozole and cipamfylline – we illustrate how the molecular interaction maps can be used to evaluate the stability of polymorphic structures, assess multiple types of non-covalent interactions and provide a platform for crystal morphology analysis.