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Mechanisms in iron, nickel, and manganese, catalysis with small molecule oxidants Padamati, Sandeep K.

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### Stellingen

## Behorende bij het proefschrift

### Mechanisms in Iron, Nickel, and Manganese catalysis with small molecule oxidants

#### Sandeep Kumar Padamati

- 1. A catalyst is not always needed to accelerate a change, but sometimes to tame an aggressive reagent such as NaOCI (chapter 1).
- 2. Humidity in Netherlands affects the Dutch chemistry, and gives hints as to what is happening in reaction (chapter 2) it also leads to dry skin.
- 3. The right balance of emotions makes life beautiful, but the right balance of water is needed for the formation of beautiful species (chapter 2).
- 4. Working with a tetradentate complex, and having labile ligands is not always so painful, as long as one has the patience to observe a dynamic system (chapter 2).
- 5. Saying that iron oxidation chemistry is a mature field because we have characterised so many exotic species is a bit like saying we understand a Shakspearian play because we had a beer with the actors thorough understanding comes from observing a dynamic system (chapter 3).
- 6. The devil is in the detail, a single signal in a spectrum can reveal a whole new perspective on a project (chapter 4).
- 7. Claiming to have proven a mechanism is a bit like saying we have mapped the heavens. The joy of astronomy and mechanistic chemistry is that there is always further and more to look at.
- 8. Seeking a crystal structure of an intermediate formed in a reaction can fill one with excitement of the insight it can bring but it is a bit like googling a cheat for a difficult computer game. There is more to mechanisms than static X-ray structures (but sometimes a lucky break of a good crystal can give you a leg up, Chapter 6).
- 9. Ireland is the land of Saints and Scholars I got a Scholar:/