**New Reactivity and Selectivity in Rh Catalysed C-C Bond-Formation**

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We have developed a series of Rh-catalysed alkene, alkyne and allene hydroacylation processes that allow the efficient and controlled synthesis of a variety of carbonyl-containing products. The talk will focus on the development of these reactions, the selectivity that can be achieved, and some recent applications of the chemistry. We will also present very recent work that details the development of a new family of Rh-catalysed processes all based on the activation of aromatic C-S bonds.

Recent references:

(a) J. F. Hooper, R. D. Young, I. Pernik, A. S. Wellerand M. C. Willis, *Chem. Sci*. **2013**, *4*, 1568. (b) J. F. Hooper, R. D. Young, A. S. Weller and M. C. Willis, *Chem. – Eur. J*. **2013**, *19*, 3125. (c) J. F. Hooper, A. B. Chaplin, C. González-Rodríguez, A. L. Thompson, A. S. Weller and M. C. Willis, *J. Am. Chem. Soc*. **2012**, *134*, 2906. (d) A. B. Chaplin, J. F. Hooper, A. S. Weller and M. C. Willis, *J. Am. Chem. Soc.* **2012**, *134*, 4885.