

# McGill Chemical Society Seminar

Tuesday, 2 February, 2016, 1:00 PM

Otto Maass Chemistry Building, Room 10



## Prof. Frank Glorius

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### *On Discovery in Catalysis*

Catalysis is a key technology of our modern societies, since it allows for increased levels of selectivity and efficacy of chemical transformations. While significant progress can be made by rational design or engineered step-by-step improvements, many pressing challenges in the field require the discovery of new and formerly unexpected results. Arguably, the question “How to discover?” is at the heart of the scientific process. In this talk, I would like to discuss discoveries from my group based on:

- mechanistic investigation,
- the observation and analysis of serendipitous findings by the prepared mind and
- the development and use of rather smart screening technologies.<sup>[1,2]</sup>



“Landing of Columbus at the Island of Guanahani, West Indies, 12 October 1492”, John Vanderlyn, 1836–47

### **Selected publications:**

- [1] a) K. D. Collins, F. Glorius, *Nature Chem.* **2013**, 5, 597. b) K. D. Collins, F. Glorius, *Tetrahedron* **2013**, 69, 7817. c) K. D. Collins,\* A. Rühling, F. Lied, F. Glorius,\* *Chem. Eur. J.* **2014**, 20, 3800. d) K. D. Collins, A. Rühling, F. Glorius, *Nature Protocols* **2014**, 9, 1348. e) An overview on intermolecular reaction screening: K. D. Collins,\* F. Glorius,\* *Acc. Chem. Res.* **2015**, 48, 619.
- [2] M. N. Hopkinson, A. Gómez-Suárez, M. Teders, B. Sahoo, F. Glorius, submitted.

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