



**8<sup>th</sup> ICGC 2018 Session:**

**Design and applications of selective reactions of olefins**

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**Abstract:**

Much of the chemical industry is based on processes that were developed decades ago. The change in the cost of petroleum carbon and energy sources and the need to control emissions of carbon dioxide and other pollutants will change the rules of the industry. As the rules change new processes will be required. Catalytic processes provide Green routes to many old and new chemicals and open new sources of carbon. We will use examples from our work on catalysis of how catalysis can be used to meet the challenges imposed by the changing conditions.