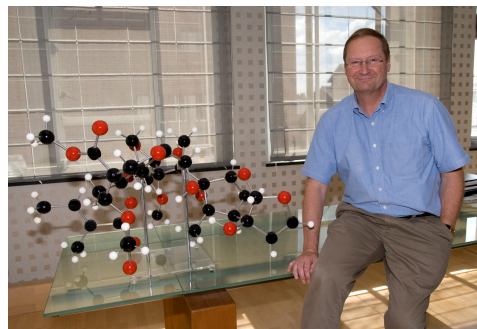


# Professor Steven Ley

Professor of Chemistry  
Department of Chemistry, University of Cambridge

**College Affiliation:** Trinity College  
**Research Interest Group:** Synthetic  
**For more information, please visit:** [www.leygroup.ch.cam.ac.uk](http://www.leygroup.ch.cam.ac.uk)



Photographer: Nathan Pitt

## About Me

I have been the BP (1702) Professor of Chemistry at the University of Cambridge since 1992 and a Fellow at Trinity College since 1993. Prior to that, I was a lecturer at Imperial College in 1975, promoted to Professor in 1983, and Head of Department in 1989. In 1990 I was elected to the Royal Society (London) and was President of the Royal Society of Chemistry from 2000-2002. I have published over 775 papers and have been honoured to receive 46 major awards.

## My Research Interests

My work involves the discovery and development of new synthetic methods and their application to biologically active systems. The TPAP catalytic oxidant that is now used worldwide and cited extensively was one of my group's inventions. We have published extensively on the use of iron carbonyl complexes, organoselenium chemistry, the use of microwaves in organic chemistry, biotransformations for the synthesis of natural products, and strategies for oligosaccharide assembly. To date more than 145 major natural products have been synthesised by the group. We are currently developing new methods and techniques in particular the use solid-supported reagents in a designed sequential and multi-step fashion, and in combination with advances in the use of scavenging agents and catch and release techniques and for flow microreactor systems. Interesting advances have been made in the design of new catalysts especially for asymmetric synthesis.

## Mentoring Support I Can Provide

- Topics included in my research interests (please see above)!
- Research-related issues: project management/time management
- Career development and progression: career values, aspirations, training and paths
- Career development and progression: routes to academic careers
- Career development and progression: routes to industry careers
- Widening your support network

## Mentoring Availability and Contact

Please email my secretary, Jacqui Worster, to arrange: [jsw42@cam.ac.uk](mailto:jsw42@cam.ac.uk)