**Chemistry: Quantum Mechanics to Biocatalysts**

A residential course for A2-level students

**This course sets out to inspire and challenge you in a non-competitive environment, mixing with like-minded students from across the UK and tutored by two subject experts. Participation can be acknowledged under *Preparation for HE* on your UCAS application form.**

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| **Objectives**   * + To gain an understanding of why chemical reactions happen   + To explore ideas not covered in AS or A2 in order to obtain a better idea of how different aspects of Chemistry are interrelated: this should help link ideas from molecular orbital theory, thermodynamics, kinetics, organic and inorganic chemistry |
| **Format**  Seminars will be interactive and require active student participation and discussion of ideas. Students will work in small groups to solve questions and present answers to exercises. There will be the opportunity to do some experimental work in the Department of Chemistry, University of Cambridge, as well as a visit to a local chemical company.  Please see the sample programme overleaf although course content may change. |
| **Tutors**  Tom O’Neill read Natural Sciences at Cambridge specialising in Chemistry where he also completed his PhD in Soft Matter Physics, in which he attempted to make new advanced materials using self-assembly of polymers.  Georges Trenins is a PhD student in Theoretical Chemistry at the University of Cambridge where he also studied for his first degree and MSc. |
| **Details**  *Date:* **Wednesday 11 to Sunday 15 December 2019**  *Venue:* **The Cambridge Centre at Villiers Park, Foxton**  *Ref:* **Chemistry: Quantum Mechanics to Biocatalysts – 20S002**  *Cost:* **£325 to include accommodation, meals, course materials (students at fee paying schools will need to pay the full cost of £739)** |
| Please complete the application form and return to Villiers Park by **Friday 8 November 2019**  For more information contact us on 01223 872601 or vp@villierspark.org.uk  [www.villierspark.org.uk](http://www.villierspark.org.uk) |