

The Diversity of Catalysis Summer School

Cardiff University School of Chemistry takes a global outlook to tackling the important scientific challenges of the future. We have a positive, friendly and modern ethos that helps us to maintain our reputation for high-quality teaching and research.

We are proud to be part of the Russell Group of elite UK universities. This status encourages us to strive for high standards in everything we do. Most recently, Cardiff University was ranked among the top 150 universities in the world according to the QS World University Rankings.

Our School is ideally placed in Cardiff University's beautiful Main Building, right at the heart of the University campus. We are very close to all of the University's other facilities and also to the city centre of Cardiff, Wales' capital and largest city. Cardiff has an extremely active social and cultural scene, meaning there is always plenty to see and do. The city also benefits from great transport links, thanks to Cardiff Airport, Cardiff Central train station and the M4 motorway.

As the home of the Cardiff Catalysis Institute, Cardiff University School of Chemistry is a world leader in the teaching and research of catalysis. Our faculty includes renowned academics specialising in all areas of catalysis. This Summer

School will give you an insight into the cutting-edge of research on this all-important chemical process.

Our research is focused on finding solutions to current real-world problems, as well as improving catalytic processes already in use. This approach forms the basis of the Diversity of Catalysis Summer School, which provides a through grounding in both theory and practical skills.

In keeping with our varied research, the course content explores the varied presence and application in chemistry of the differing types of catalyst and catalytic applications. Ranging through organic, inorganic, spectroscopic and theoretical chemistry, you will gain a thorough understanding of the integral role catalysts play in chemistry. Teaching will include hands-on sessions covering organic synthesis, molecular modelling, homogeneous and heterogeneous catalysis, spectroscopy, dynamics and characterisation.



The Diversity of Catalysis Summer School preliminary schedule (subject to change)

Saturday 15 July	Arrival in Cardiff
Sunday 16 July	Free time
Monday 17 July	Welcome and orientation day
Tuesday 18 July	Inorganic/Organic Synthesis Laboratory Lectures
Wednesday 19 July	Inorganic/Organic Synthesis Laboratory Lectures Industrial visit
Thursday 20 July	Biological Chemistry Laboratory Lectures
Friday 21 July	Scenic tour of Welsh beaches
Saturday 22 July	Field trips and free time
Sunday 23 July	Field trips and free time
Monday 24 July	Tour of Cardiff Catalysis Institute Lectures
Tuesday 25 July	Computer Modelling Laboratory Lectures
Wednesday 26 July	Catalysis Laboratory Lectures Industrial visit
Thursday 27 July	Spectroscopy Laboratory Lectures
Friday 28 July	Course conclusion
Saturday 29 July	Departure from Cardiff