

**SUSDG Meeting 2019 Programme:**

**Monday 2<sup>nd</sup> September:**

**13.00** Registration and Buffet Lunch + Coffee - Chemistry Foyer

**13.50** Opening remarks - Beverton lecture theatre

**Session 1:**

**Chair: Dr Joseph Beames**

**14.00** Nathan Watson – Cardiff University

*Bimolecular sinks of Criegee intermediates derived from Hydrofluoroolefins: A Computational Analysis.*

**14.30** Dr Christopher Robertson – University of Warwick

*Novel Path Integral Methods for Quantum Real-Time Correlation Functions.*

**15.00** Frederick Cascarin – University of Bristol

*Collision Energy Dependence of the Competing Mechanisms of Reaction of Chlorine Atoms with Propene.*

**15.30** Dr Stuart Crane – University of Bristol

*Coulomb Explosion Imaging: A tool for molecular structure determination.*

**16.00** Coffee Break with Welsh Cakes

**Session 2:**

**Chair: Dr Christopher Robertson**

**16.30** Lingfeng Ge – University of Bristol

*Simulating Coulomb Explosion Dynamics. Inverse kinetic isotope effect observed in ammonia charge exchange reactions.*

**17.00** Georgia Thornton – University of Bristol

*A Photoredox Polymerisation Study of N-ethylcarbazole Using Transient Electronic Absorption Spectroscopy.*

**17.30** Paul Bertier – University of Oxford

*Control and measurement of cold ammonia orientation.*

**18.00** Coffee Break and Cake Bites

**18.20-19.00** Free time to collect keys from accommodation

**19.00-20.30** Dinner in Restaurant

**20.30 - onwards** After dinner drinks

**Tuesday 3<sup>rd</sup> September:**

**08.15-09.00** Breakfast in the Chemistry Foyer

**Session 3:**

**Chair: Dr Patrick Robertson**

**09.10** Tony Kao – University of Bristol

*Photochemistry of a sunscreen molecule- hexyl diethylaminohydroxybenzoylbenzoate.*

**9.40** Helen Chadwick – Swansea University

*Stereodynamic Effects in H<sub>2</sub> Scattering from LiF.*

**10.10** Eman Al-Wattar – Cardiff University

*Study of kinetic the Thiazole orange (TO) under varying conditions.*

**10.40** Andrew Farrell – University of Glasgow

*First direct observation of the Boson Peak.*

**11.10** Coffee Break- Chemistry Foyer

**Session 4:**

**Chair: Dr Stuart Crane**

**11.30** Joseph Broughton – University College London (UCL)

*Illuminating the Ultrafast Dynamics of Thiophene.*

**12.00** Gareth Richings – University of Warwick

*MCTDH on-the-fly: Efficient grid-based quantum dynamics without pre-computed potential energy surfaces.*

**12.30** Fengyuan Shan – University College London (UCL)

*The interaction of cationic dyes with a range of gold nanoparticles and nanoclusters.*

**13.00** Andriana Tsikritea – University of Oxford

*Inverse kinetic isotope effect observed in ammonia charge exchange reactions.*

**13.30-14.30** Coffee Break with Welsh Cakes

Conference Closes