

Monday 8 Jan 2018

- 16:00 Registration *Collingwood Foyer*
18:30 Dinner *Collingwood Dining Hall*

All scientific sessions will be in the Scarborough Lecture Theatre

Session 1: Tutorials in Spectroscopy and Dynamics

- 19:50 Welcome
20:00 Gary Douberly University of Georgia
“Spectroscopy of radicals and carbenes in helium droplets”
20:45 Andy Beeby Durham University
“Shining Light on Medieval Manuscripts”

Tuesday 9 Jan 2018

- 07:30 Breakfast

Session 2 *Chair: Julia Davies*

- 09:00 Brianna Heazlewood University of Oxford
“New approaches in the control of cold ion-neutral reactions”
09:50 Nathan Watson Cardiff University
“Reactions of Criegee intermediates with alcohols: a computational analysis”
10:10 Arin Mizouri University of Leicester
“Evidence for multiply quantized vortices in superfluid ^4He ”
10:30 Hansjochen Koeckert University of Oxford
“Fragmentation dynamics of charged and neutral metal clusters”
10:50 Coffee/Tea *Scarborough Café*

Session 3 *Chair: Joe Beames*

- 11:20 Edward Matthews University of York
“Probing the photochemistry of flavin anions using photodissociation spectroscopy”
11:40 Victoria Taylor University of Bristol
“Investigating the role of the formamidinium cation in lead iodide perovskites using 2DIR”
12:00 Neil Cole-Filipiak University of Warwick
“Ultrafast dissociation dynamics of substituted anilines”
12:20 James Pickering Aarhus University
“Coulomb explosion imaging of molecular dimers inside helium droplets”
12:40 Lunch *Buffet in Scarborough Café*

Session 4 *Chair: Claire Vallance*

- 13:40 *RSC Chemical Dynamics Award Presentation by Claire Vallance*
Julia Weinstein University of Sheffield
“Towards IR-control of photoinduced electron transfer in the condensed phase”
14:30 Matthew Bain University of Bristol
“Determining branching fractions in competitive bond dissociation using multi-mass ion imaging”
14:50 Cornelia Heid University of Oxford
“Inelastic scattering of NO(X): what can we learn from bond axis orientation?”
15:30 Conor Rankine University of York
“The “Molecular Movie” behind-the-scenes: setting the stage for an ultrafast electron diffraction experiment”
15:50 Coffee/Tea *Scarborough Café*

15:50	Poster session	<i>Scarborough Café</i>
17:30	AGM	<i>TBA</i>
18:00	Bar opens	<i>Castle Bar</i>
18:30	Dinner	<i>Castle Dining Hall</i>
20:15	SDG Quiz	<i>Castle Bar</i>

Wednesday 10 Jan 2018

07:30 Breakfast

Session 5 *Chair: Michael Parks*

09:00	Tom Rizzo	École Polytechnique Fédérale de Lausanne	“Cryogenic ion spectroscopy for structural and analytical studies of biomolecules”
09:50	Julia Davies	University of Leicester	“Spectroscopic studies of hydrogen-bonded clusters in helium nanodroplets”
10:10	Thomas Northey	University of Newcastle	“Ultrafast X-ray absorption spectroscopy using quantum dynamics”
10:30	Nada Al Taisan	Durham University	“Real-time absolute measurement of breath acetone for the treatment of diabetic ketoacidosis”
10:50	Coffee/Tea	<i>Scarborough Café</i>	

Session 6 *Chair: Simon Purcell*

11:20	Michael Hippler	University of Sheffield	“Trace gas analysis with diode laser photoacoustic spectroscopy in a Helmholtz resonator”
11:40	Jutta Toscano	University of Oxford	“Making a pure beam of radicals”
12:00	Adrian Gardner	University of Nottingham	“Direct observation of vibrational energy dispersal via methyl torsions”
12:20	Thomas Sharples	Heriot-Watt University	“Insight into the mechanism of electronic quenching of NO(A) from the stereodynamics of rotational energy transfer”
12:40	Lunch	<i>Buffet in Scarborough Café</i>	

Session 7 *Chair: Julia Lehman*

13:40	Adam Kirrander	University of Edinburgh	“Ultrafast X-ray scattering: theory and some experiment”
14:30	James Green	University of Leeds	“Quantum dynamics simulations of ultrafast photodissociation: Adding insight to experiment with ab initio multiple cloning.”
14:50	Michael Burt	University of Oxford	“Watching reaction and structural dynamics using pixel imaging”
15:10	Huda AlSalem	University of Manchester	“Characterisation, coverage, and orientation of functionalised graphene using sum-frequency generation spectroscopy”
15:30	Close of SDG 2018		
	Coffee/Tea	<i>Scarborough Café</i>	