Annual meeting of the SDG, University of Nottingham, 2009

Monday 5 January 2009

17:00 – 19:00 Registration – Hugh Stewart Hall
18:30 Dinner – Hugh Stewart Hall

Session 1 Small Lecture Theatre, School of Chemistry Chair: Katharine Reid
19:30 Opening Remarks
19:35 Andrew Ellis, *Helium nanodroplets: techniques, applications and opportunities*
20:30 Stephen Price, *Ion-molecule reactions: from flow tubes to coincidences*

The bar will be open until 23:30

Tuesday 6 January 2009

08:00 – 08:45 Breakfast – Hugh Stewart Hall

Session 2 Small Lecture Theatre, School of Chemistry Chair: Claire Vallance
09:00 Roland Wester, *Imaging low-energy negative ion reactions*
09:50 Iain Wilkinson, *Time-dependent photoionization of azulene*
10:10 Paul Hockett, *Determination of the photoionization dynamics of NH$_3$(B$^1E^\prime$) from rotationally resolved photoelectron images*
10:30 Tom Oliver, *Experimental and theoretical insights into photodissociation dynamics of heteroaromatic molecules*

10:50 Coffee

Session 3 Small Lecture Theatre, School of Chemistry Chair: Stuart Mackenzie
11:20 Ben Truscott, *High-resolution LIF spectroscopy of the S$_1 \leftarrow S_0$ transition in CFBr*
11:40 Cyril Richard, *On the Zeeman effect in the red-orange bands of NiH*
12:00 Trevor Sears, *Sub-Doppler spectroscopy of CN: measurement of the hyperfine structure of the A state*
12:20 Mike Nix, *Spectroscopic consequences of an excited state conical intersection in tryptamine*

12:40 Lunch – Hugh Stewart Hall

Session 4 Small Lecture Theatre, School of Chemistry Chair: Eckart Wrede
14:00 Dave Townsend, *Time-resolved photoelectron spectroscopy as a probe of molecular dynamics*
14:40 Joe Beames, *Cold molecular beams of porphyrins and their sub units*
15:00 Scott Hopkins, *REMPI spectroscopy of VO*
15:20 Poster session and Tea – School of Chemistry Foyer and Room A2
18:00 Annual General Meeting of the SDG
18:30 Close of session
19:00 Dinner – Hugh Stewart Hall
20:30 Annual SDG Quiz, Hugh Stewart Hall Bar
   The bar will be open until 23:30

Wednesday 7 January 2009

08:00 – 08:45 Breakfast – Hugh Stewart Hall

Session 5  Small Lecture Theatre, School of Chemistry  Chair: Matthew Costen
09:00 Graham Worth, *Unravelling polyatomic spectra using quantum dynamics simulations*
09:40 Stuart Greaves, *Inelastic vibrational excitation through the tug-of-war mechanism*
10:00 Alisdair Wallis, *Conical intersections created by external fields.*
10:20 Peter Sarre, *Protonated PAHs as carriers of diffuse interstellar bands*
10:40 Eric So, *Interaction of Rydberg states with metal surfaces*
11:00 Coffee

Session 6  Small Lecture Theatre, School of Chemistry  Chair: Tim Softley
11:20 Ryuichi Wada, *Studies of thermodynamics of adduct C$_2$H$_5$I – Cl formation*
11:40 Carla Waring, *Dynamics of reactive and inelastic collisions at soft surfaces*
12:00 Craig Murray, *State-resolved quenching of OH A$^2\Sigma^+$ by molecular partners*
12:20 David Carty, *PhotoStop: a smash ‘n’ grab approach to trapping molecules*
12:40 Richard Plowright, *Electronic spectroscopy of Au-Rg complexes*
13:00 Lunch – Buffet in School of Chemistry Foyer

Session 7  Small Lecture Theatre, School of Chemistry  Chair: Nick Walker
14:00 Caroline Dessent, *Biological ions and micro-clusters in the gas phase: spectroscopy and structure*
14:40 Michael Parkes, *Dynamics of dication reactions*
15:00 Hamish Stewart, *UV spectra of cold metal dication complexes*
15:20 Mathias Schnippering, *Cavity based spectroscopic techniques for studying interfacial dynamics*
15:40 Panagiotis Kapetanopoulos, *Nanosecond Time-Resolved Ion Imaging System and future prospects*
16:00 Tea and close of meeting
A prize for the best poster has been sponsored by PCCP


2. X. Chen, G. Wu, A.J. Stace, Fragmentation pathways of doubly charged metal – ligand complexes as Lewis acids

3. M. Simpson, R. Tuckett, C. Latimer, K. Dunn, and A. Hunniford, VUV negative photoion spectroscopy of small polyatomic molecules


5. C. Mohr, C.L. Spencer and M. Hippler, Raman spectroscopy with a laser pointer: educational and research applications


8. M. Brouard, E. Campbell, A. Johnsen, C. Vallance, and W.H. Yuen, Ion imaging studies in the photodissociation of carbon disulfide

9. J. Oldham, A. Gingell, M. Bell, T.P. Softley and S. Willitsch, Low temperature chemical and charge-transfer reactions

10. S. Sanders, O. Willis, N.H. Nahler and E. Wrede, Laser spectroscopy in the teaching lab - a simple CRDS experiment

11. M. Brouard, A. Johnsen, C. Slater, C. Vallance and W. Yuen, Applications of Imaging mass spectrometry


14. J. Liu, B. Shepperson, A.M. Ellis and S. Yang, Investigation of small molecular clusters inside helium droplets by electron impact ionization

15. A. Candian and P.J. Sarre, Vibrational spectra of polyacenes: astronomical implications

17. A. Sage and M.N.R Ashfold, *The role of πσ* states in substituted aromatic molecules

18. X. Tong and S. Willitsch, *title to be announced*


22. A. Ross, P. Crozet, H. Harker and C. Richard, *The Zeeman effect in low-lying electronic states of NiH, observed in FT resolved fluorescence*

23. N.R. Walker, D. Wheatley and A.C. Legon, *Microwave spectrum and structure of H$_2$S-CuCl and H$_2$S-AgCl*


27. C. Taylor and C.E.H. Dessent, *Insights into heparin structure: mass spectrometry using high and low energy collision induced dissociation*

28. C. Taylor and C.E.H. Dessent, *The effect of cation complexation on the fragmentation pathways of heparin disaccharides observed by ion trap mass spectrometry*

29. C.L. Spencer, C. Mohr and M. Hippler, *An unexpected vibrational shift of the C-H stretching vibration of hydrogen bonded formic acid dimer*

30. A.O.G. Wallis, J.M. Hutson and S.A. Gardiner, *Ultracold molecules in combined electric and magnetic fields: a new type of conical intersection*


32. M. Brouard, H. Chadwick, Y.P. Chang, C. Eyles and R. Cireasa, *Quantum beat spectroscopy as a probe of collisional depolarisation of angular momentum and of the polarisation of angular momentum created during photodissociation*

33. A. Nielsen and A.J. Stace, *Influence of angular momentum in collisional reionisation*
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