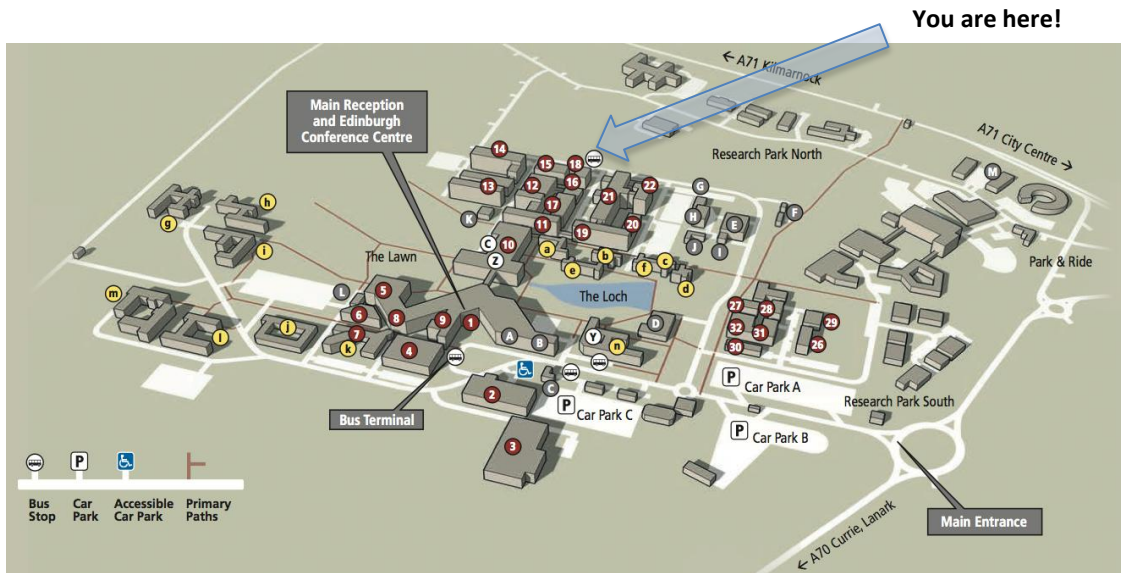


# Overview

**9:30 - 10:20 Registration Postgraduate Centre**

The registration takes place in the reception of the postgraduate centre, building 18:



**10:20 - 12:20 Session 1 Postgraduate Centre**

**12:20 - 13:20 Lunch Earl Mountbatten Building, Room: 1.82**

Lunch is served in the building immediately opposite the postgraduate centre. Follow the signs!

**13:20 - 14:50 Session 2 Postgraduate Centre**

**14:50 - 15:20 Tea/Coffee Earl Mountbatten Building, Room: 1.82**

**15:20 - 16:10 Session 3 Postgraduate Centre**

**16:10 - 16:40 Flash Presentations Postgraduate Centre**

**16:40 - 18:30 Posters and Refreshments Earl Mountbatten Building, Room: 1.82 and Crush Area**

# ScotCHEM 2014

## Session 1

Chair: Prof. Martin Paterson

|       |   |   |    |
|-------|---|---|----|
| 10:20 | Opening Remarks<br>(Head of the Institute of Chemical Sciences)   | Prof. Stuart Macgregor<br><i>Heriot-Watt University</i> |    |
| 10:30 | <b>PLENARY TALK:</b> <i>Mapping molecular currents: simple pictures of aromaticity and molecular conduction</i> | Prof. Patrick Fowler<br><i>University of Sheffield</i>  | 01 |
| 11:20 | <i>Computational modelling of organic semiconductors for optoelectronics</i>                                    | Prof. Ian Galbraith<br><i>Heriot-Watt University</i>    | 02 |
| 11:50 | <i>Helical nanosystems</i>  | Dr Ben Hourahine<br><i>University of Strathclyde</i>    | 03 |
| 12:20 | Lunch   | Earl Mountbatten 1.83                                   |    |

## Session 2

Chair: Dr Carole Morrison

|       |  |  |    |
|-------|--|--|----|
| 13:20 | <i>Identifying trapped electronic holes at the TiO<sub>2</sub> water interface</i>   | Dr Jun Cheng<br><i>University of Aberdeen</i>                | 04 |
| 13:50 | <i>Excited states and potential curves using Monte Carlo configuration interaction</i>   | Dr Jeremy Coe<br><i>Heriot-Watt University</i>               | 05 |
| 14:10 | <i>Impact of ligand binding on the N-terminal MDM2 lid dynamics explored by accelerated molecular dynamics and umbrella sampling</i> | Dr Juan A. Bueren-Calabuig<br><i>University of Edinburgh</i> | 06 |
| 14:30 | <i>Active site structure from docking and dynamics: the non-heme Fe halogenase SyrB2</i>   | Mr Graham Rugg<br><i>University of Glasgow</i>               | 07 |
| 14:50 | Tea/Coffee   | Postgraduate centre  |    |

## Session 3

Chair: Dr Hans Martin Senn

|       |  |  |     |
|-------|--|--|-----|
| 15:20 | <i>DFT study of a rhodium(II) <math>\sigma</math>-alkane complex: mechanism and bonding</i>                                    | Dr Tobias Krämer<br><i>Heriot-Watt University</i>    | 08  |
| 15:40 | <i>Uncovering the mechanism of MMA production at a palladium catalyst - accounting for selectivity and reaction conditions</i> | Mr Luke Crawford<br><i>University of St. Andrews</i> | 09  |
| 16:00 | ARCHER: the UK national supercomputing service   | Dr Andrew Turner<br><i>EPCC</i>                      | 010 |
| 16:10 | Flash Presentations  |  |     |

|                               |   |
|-------------------------------|---|
| <b>F1 Georgios Gerogiokas</b> | <i>Biomolecular hydration thermodynamics via grid cell theory aids prediction of ligand-protein binding affinities</i>      |
| <b>F2 Nuno Almeida</b>        | <i>Challenging systems for quantum chemistry: intermolecular aggregates and inorganic excited states</i>                    |
| <b>F3 Greg Anderson</b>       | <i>Organic super-electron-donors: initiators in transition metal-free haloarene-arene coupling</i>                          |
| <b>F4 Divya Sharma</b>        | <i>Computational analysis of benzene interaction with crystalline ice surfaces: ground and excited state investigations</i> |
| <b>F5 Leo Holroyd</b>         | <i>Mutagenic mispairing of 5-bromouracil</i>  |
| <b>F6 Peter Repiščák</b>      | <i>Multi-scale computational modelling of complex molecular systems: from CuNO to polyfluorenes</i>                         |