

Sponsors:



**Advion**

**Asynt**



**LAUDA**

**RATHBURN CHEMICALS Ltd.**



University  
of Glasgow



**WestCHEM**

**12<sup>th</sup> WestCHEM Research Day**

**Thursday 18<sup>th</sup> August 2016**

Lecture Theatre TG312  
Department of Pure and Applied Chemistry,  
University of Strathclyde,  
Thomas Graham Building,  
295 Cathedral Street,  
Glasgow, G1 1XL.

<http://www.strath.ac.uk/science/chemistry/>  
<http://www.gla.ac.uk/schools/chemistry/>  
<http://www.westchem.ac.uk>

# Programme

9.00 Tea/Coffee & Registration

\* \* \*

9.25 Opening Remarks – *Prof Robert Mulvey (WestCHEM Director)*

12.40 - 14.00 Free Time  
(Registration for Afternoon Session opens at 13.50)

\* \* \*

**Session 1.** Chair: K H Aaron Lau

9.30 Samantha Orr (SU)  
*"Alkali Metal Dihydropyridines: Synthesis, Structures and Catalytic Applications" (Inorganic Chemistry; Supervisor: Prof Robert Mulvey)*

**Session 3.** Chair: Anna Stradomska

14.00 Ryan Tullius (GU)  
*Serum Analysis using Chiral Metamaterials (Dynamics and Structure; Supervisor: Dr Malcolm Kadodwala)*

9.55 James Taylor (GU)  
*Compartmentalization arising from an amphiphilic template self-replicator (Complex Chemistry; Supervisor: Prof. Lee Cronin)*

14.25 Adam Grzelak (SU)  
*Polyurethane-based self-healing coatings for consumer products: relationship between performance and morphology (Physical Chemistry; Supervisor: Dr John Liggat)*

10.20 Sian Sloan Dennison (SU)  
*Detecting specific antigens using the peroxidase-like activity of silver nanoparticles combined with SER(R)S detection (Nanobiotechnology; Supervisors: Prof Duncan Graham and Prof Karen Faulds)*

14.50 Ross Marshall (GU)  
*Synthesis, Characterisation and Postsynthetic Halogenation of Zr and Hf Based Metal-Organic Frameworks (Nanoscience and Materials; Supervisor: Dr Ross Forgan)*

10.45 Gareth Davies (RSC)  
*"The Royal Society of Chemistry: support for early career researchers"*

\* \* \*

15.15 Katie Emery (SU)  
*C-C bond-forming reactions of aryl halides under reductive activation (Organic Chemistry; Supervisor: Prof John Murphy)*

11.00 - 11.25 Tea/Coffee Break

\* \* \*

15.40 - 16.00 Tea/Coffee Break

\* \* \*

**Session 2.** Chair: Mark Murrie

11.25 Kate McAulay (GU)  
*Structural Studies of Cobalt Rhenium Ammonia Synthesis Catalysts (Catalysis; Supervisor: Dr Justin Hargreaves)*

**Session 4.** Chair: David Palmer

11.50 Jawad Ali Hussein Alpofoad (SU)  
*Static and dynamic oral bioaccessibility extraction tests with on- or off-line analysis by ICP-MS for measuring elements in inhalable airborne particulate matter (Analytical Chemistry; Supervisors: Dr Christine M Davidson and Prof David Littlejohn)*

16:00 **KEYNOTE SPEAKER:**  
**Prof Sabine Flitsch (University of Manchester)**  
*De novo design of biosynthetic pathways*

12.15 Maria Jose Heras Ojea (GU)  
*Enhancement of TbIII-CuII Single-Molecule Magnet Performance Through Structural Modification (Nanoscience and Materials; Supervisor: Prof. Mark Murrie, Glasgow University)*

17:00 Prize Presentation for the Best Talk and Closing Remarks

\* \* \*

17:00 – 18:00 Cheese & Wine Reception