CATALYSIS: FUNDAMENTALS AND PRACTICE, LIVERPOOL 15 - 19 July 2019

	Monday 15 July 2019	Tuesday 16 July 2019	Wednesday 17 July 2019	Thursday 18 July 2019	Friday 19 July 2019
8.30	Registration				
8.50	Welcome **Jon. Iggo** ***(U Liverpool)***				
9-10	Principles of Homogeneous Catalysis **Mimi Hii** ***(Imperial College)***	Catalysis in Bio-technology **Andreas Liese** ***(TU Hamburg)***	Catalyst deactivation **John Birtill** ***(Highcliffe Catalysis Limited and U Glasgow)***	Fundamentals of Catalytic Reaction Engineering **Jacob Moulijn, *(U Cardiff & TU Delft)***	Engineering a process **Christian Wix** ***(Haldor Topsoe)***
10-11	Principles of Heterogeneous Catalysis **S. Dave Jackson** ***(U Glasgow)***	High Throughput Experimentation in Heterogeneous Catalysis **Alfred Haas, *(hte)***	Heirarchical systems **Augustin Martínez Feliu** ***(ITQ)***	Catalyst characterization **Angelika Brückner, *(Leibniz Institute for Catalysis)***	*Operando* studies of catalytic reactions: pitfalls and benefits. **Fred Meunier, *(IRCELYON)***
11-11.20	*Coffee*	*Coffee*	*Coffee*	*Coffee*	*Coffee*
11.20-12.20	Tricks of the Trade – Aspects of commercial catalyst manufacturing ***(BASF Cat.)***	Cat in a Hot Tin Tube: Designing reactors to suit the catalysis **Hugh Stitt *(JM Process Technologies)***	The Fundamentals of Catalysis on the Molecular Level. **Richard Catlow, *(UCL)***	From Discovery to Production: Catalysis in C-C bond forming reactions **Duncan Wass, *(U Bristol)***	Adding value: Catalytic transformation of waste bio-oils **David Cole-Hamilton (U St Andrews**
12.30-2	*Lunch*	*Lunch*	*Lunch*	*Lunch*	*Lunch*
2-3	Process Development: Scale-up of Homogeneous Catalytic Reactions **John Blacker, *(iPRD, ULeeds)***		Protecting intellectual property **John Ridland** ***(JM Process Technologies)***	How to write A paper for a world class journal **Roel Prins *(ETH)***	Catalysis for fuel cells **Chris Zailitis *(JM Fuel Cells)***
3-4	Sustainable chemical transformations and processes **Chris Hardacre, *(U Manchester)***	Chemical and Process Engineering in Catalysis – Workshop ***(Syndicate Activity led by Dave Law, BP)***	Free time		Synthetic Biotransformations **Nick Turner, *(U Manchester)***
4-4.20	*Coffee*			*Coffee*	Closing remarks
4.20-5.20	Computational quantum chemistry in homogeneous and bio-catalysis **Michael Buehl *(U St Andrews)***			STM Applied to Surface Reactions **Mike Bowker, *(U Cardiff)***	Meeting ends
6-9	Poster Session & Mixer			*Conference Dinner*	