

SUNCAT Summer Institute 2017: Fundamentals and Applications of Heterogeneous Catalysis

	Monday August 14: General talks	Tuesday August 15: Characterization of Catalysts	Wednesday August 16: Theory	Thursday August 17: Catalysis Challenges	Friday August 18: Catalysis for sustainable fuels and chemicals
7.30-8.00	Registration	-	-	-	-
8.00-8.30	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast
8.30-9.00	Welcome	Microscopy Abhaya Datye	Computational tools in electrocatalysis Karen Chan	Heterogeneous ammonia synthesis Robert Schløgl	Hydrogen production and OER Tejs Vegge & Karsten Jacobsen
9.00-9.15	General plenary: Arun Majumdar				
9.15-9.45					
9.45-10.30	Catalysis in a changing world Jens Nørskov	Synchrotron techniques Simon Bare	Scaling relations Frank Abild- Pedersen	Homogeneous ammonia synthesis Jonas Peters	Thermal and electro CO ₂ reduction Anker Jensen & Ifan Stephens
10.30-11.00	Break	Break	Break	Break	Break
11.00-11.45	Carbon capture and sequestration Jennifer Wilcox	Fundamentals of electrocatalysis Marc Koper	Catalysis with MOFs Laura Gagliardi	Challenging reactions towards sustainable fuels Ib Chorkendorff	ORR and N ₂ Jan Rossmeisl & Tom Jaramillo
11.45-13.15	Lunch	Lunch	Lunch	Lunch	Closing remarks
13.15-14.00	Nanotechnology and Catalysis Javier Perez- Ramirez	In-situ and operando spectroscopic tools Miquel Salmeron	Advanced oxides Aleksandra Vojvodic	Methane to methanol Yuriy Roman- Leshkov	
14.00-14.30	Break	Break	Break	Break	
14.30-15.15	DFT Nicola Marzari	Synthesis of nanomaterials Matteo Cargnello	Machine learning – Data structures Thomas Bligaard	Atomically precise materials Bruce Gates	
15.15-15.45	Break	Break	Break	Break	
15.45-16.30	Catalysis with zeolites Unni Olsbye	Time-dependent advanced characterization Anders Nilsson	BBQ & Poster Awards	Single-site catalysts Alex Katz	
16.30-17.00	Break	Break		Break	
17.00-17.45	Experimental Heterogeneous Catalysis Alexis T. Bell	Experimental photo- electrocatalysis Yogeshi Surendranath		Poster awards talks	
19.30-21.30	Poster session I & Dinner	Poster session II & Dinner		Free	

Locations: Registration – Li Ka Shing Center

Lectures – Paul Berg Hall inside Li Ka Shing Center

Poster Session – Lawn outside of Li Ka Shing Center

BBQ – TBD