

## **SUNCAT Summer Institute 2017: Fundamentals and Applications of Heterogeneous Catalysis**

Locations: Registration – Panofski Auditorium, Bldg 53, 2575 Sand Hill Rd, Menlo Park, CA, SLAC National Laboratory  
Lectures – Panofski Auditorium, Bldg 53, 2575 Sand Hill Rd, Menlo Park, CA, SLAC National Laboratory  
Poster Session – 443 Via Ortega, 3<sup>rd</sup> Floor, Stanford, CA  
BBQ – Chuck Taylor Grove, Stanford, CA, 94305

	Monday August 14: General talks	Tuesday August 15: Characterization of Catalysts	Wednesday August 16: Electrocatalysis / 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 <b>Abhaya Datye</b>	Experimental electrocatalysis <b>Yogesh Surendranath</b>	Synthesis of nanomaterials <b>Matteo Cargnello</b>	Hydrogen production and OER <b>Tejs Vegge &amp; Karsten Jacobsen</b>
9.00-9.15	General plenary: <b>Arun Majumdar</b>				
9.15-9.45					
9.45-10.30	Catalysis in a changing world <b>Jens Nørskov</b>	Synchrotron techniques <b>Adam Hoffman</b>	Scaling relations <b>Frank Abild- Pedersen</b>	Homogeneous ammonia synthesis <b>Jonas Peters</b>	Thermal and electro CO <sub>2</sub> reduction <b>Jakob Munkholt Christensen &amp; Ifan Stephens</b>
10.30-11.00	Break	Break	Break	Break	Break
11.00-11.45	Carbon capture and sequestration <b>Jennifer Wilcox</b>	Fundamentals of electrocatalysis <b>Marc Koper</b>	Catalysis with MOFs <b>Laura Gagliardi</b>	Challenging reactions towards sustainable fuels <b>Ib Chorkendorff</b>	ORR and N <sub>2</sub> reduction <b>Jan Rossmeisl &amp; Tom Jaramillo</b>
11.45-13.15	Lunch	Lunch	Lunch	Lunch	Closing remarks
13.15-14.00	Design and discovery of catalysts for sustainable technologies <b>Javier Perez- Ramirez</b>	Advanced oxides <b>Aleksandra Vojvodic</b>	Computational tools in electrocatalysis <b>Karen Chan</b>	Methane to methanol <b>Yuriy Roman- Leshkov</b>	
14.00-14.30	Break	Break	Break	Break	
14.30-15.15	DFT methods <b>Nicola Marzari</b>	In-situ and operando spectroscopic tools <b>Miquel Salmeron</b>	Machine learning – Data structures <b>Thomas Bligaard</b>	Atomically precise materials <b>Bruce Gates</b>	
15.15-15.45	Break	Break	Break	Break	
15.45-16.30	Catalysis with zeolites <b>Unni Olsbye</b>	Time-dependent advanced characterization <b>Anders Nilsson</b>	BBQ & Poster Awards	Single-site catalysts <b>Alexander Katz</b>	
16.30-17.00	Break	Break		Break	
17.00-17.45	Experimental Heterogeneous Catalysis <b>Alexis T. Bell</b>	Combined characterization techniques <b>Robert Schlögl</b>		Poster awards talks	
19.30-21.30	Poster session I & Dinner	Poster session II & Dinner		Free	