

**ICDC All-Hands Meeting**  
**The Saint Paul Hotel**  
**Agenda**  
**Monday, August 15, 2016**

<b>7:30 am</b>	<b>Registration</b> Continental Breakfast Available	Promenade Foyer	All
<b>8:30 am</b>	<b>Director and Deputy Director</b> to meet with Scientific Advisory Board	Summit Room	Laura Gagliardi, Joe Hupp, Scientific Advisory Board Members
<b>9:00 am</b>	<b>Director's Welcome</b>	Promenade South	Laura Gagliardi
<b>THEME 1 - CATALYSIS AT NU-1000</b> <b>(Chair: Bruce Gates)</b>			
<b>9:10 am</b>	<b>Introduction, Theme 1</b>	Promenade South	Laura Gagliardi
<b>9:20 am</b>	<b>Presentation #1</b>		
Poster No. 10	Tuning the Sites on Metal Oxide-Like MOF Clusters as Supports for Well-Defined Metal Complex Catalysts	Promenade South	<u>Dong Yang</u> , <u>Varinia Bernales</u> , Gamze Gümüşlü, Jun Yu, Timur Islamoglu, Timothy C. Wang, Omar K. Farha, Joseph T. Hupp, Christopher J. Cramer, Laura Gagliardi, Bruce C. Gates
<b>9:40 am</b>	<b>Presentation #2</b>		
Poster No. 09	Cu-NU-1000: Structural Characterization and Catalytic Activity for Methane Oxidation	Promenade South	<u>Jian Zheng</u> , <u>Manuel A. Ortuño</u> , Dale R. Pahls, Takaaki Ikuno, Aleksei Vjunov, Maricruz Sanchez-Sanchez, John L. Fulton, Donald M. Camaioni, Zhanyong Li, Omar K. Farha, Joseph T. Hupp, Christopher J. Cramer, Laura Gagliardi, and Johannes A. Lercher
<b>10:00 am</b>	<b>Presentation #3</b>		
Poster No. 08	Oxidative Dehydrogenation of Propane Catalyzed by Co-decorated NU-1000	Promenade South	<u>Zhanyong Li</u> , <u>Manuel A. Ortuño</u> , Varinia Bernales, Aaron W. Peters, Neil M. Schweitzer, Christopher J. Cramer, Laura Gagliardi, Joseph T. Hupp, and Omar K. Farha
<b>10:20 am</b>	<b>Presentation #4</b>		
Poster No. N/A	Deposition and Activity of Heterobimetallic Complexes onto NU-1000	Promenade South	<u>Sai P. Desai</u> , <u>Dale R. Pahls</u> , Anthony B. Thompson, Varinia Bernales, Leighanne C. Gallington, Camille D. Malonzo, Thomas Webber, Timothy C. Wang, Zhanyong Li, R. Lee Penn, Andreas Stein, Omar K. Farha, Joseph T. Hupp, Karena W. Chapman, Laura Gagliardi, Connie C. Lu
<b>10:40 am</b>	<b>BREAK</b>	Promenade Foyer	All
<b>11:00 am</b>	<b>Presentation #5</b>		
Poster No. N/A	Extending Scaling Relationships from Unsupported to Supported Metal Cluster Catalysts	Promenade South	<u>Steven Pellizzeri</u> , Varinia Bernales, Pere Miró, Melissa Barona, Randall Q. Snurr, Laura Gagliardi and Rachel B. Getman

<b>11:20 am</b>	<b>Presentation #6</b>		
Poster No. N/A	Hydrogenation and Oligomerization of Ethylene Catalyzed by Transition Metal Oxide Nanoclusters	Promenade South	Pere Miró, Peilin Liao, <u>Melissa Barona</u> , <u>Steven Pellizzeri</u> , Rachel B. Getman, and Randall Q. Snurr
<b>11:40 am</b>	<b>Conclusions, Theme 1, and Discussion</b>	Promenade South	Joe Hupp
<b>12:00 pm</b>	<b>BUFFET LUNCH</b>	Promenade North	All
	Scientific Advisory Board Members, Students and Postdocs	Promenade North	Remain in Promenade North
	PIs and Faculty Guests	Summit Room	Mini-buffet provided in the meeting room

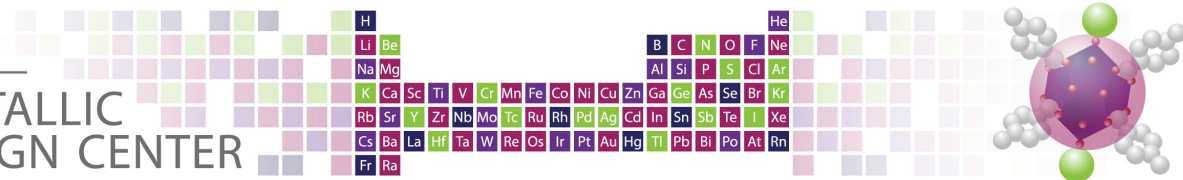
## **THEME 2 - MATERIAL CHARACTERIZATION** (Chair: Lee Penn)

<b>1:20 pm</b>	<b>Introduction, Theme 2</b>	Promenade South	Karena Chapman
<b>1:30 pm</b>	<b>Presentation #7</b>		
Poster No. N/A	Evolution of Metal Distribution in Metal-organic Frameworks During Atomic Layer Deposition: Single-site Catalyst Deposition in NU-1000 is Directed to Small Pores by Dispersion Interactions	Promenade South	<u>Leighanne C. Gallington</u> , In Soo Kim, <u>Wei-Guang Liu</u> , Andrey A. Yakovenko, Ana E. Platero-Prats, Zhanyong Li, Timothy C. Wang, Joseph T. Hupp, Omar K. Farha, Donald G. Truhlar, Alex B.F. Martinson, and Karena W. Chapman
<b>1:50 pm</b>	<b>Presentation #8</b>		
Poster No. N/A	Platinum Atomic Layer Deposition (ALD) in Metal-Organic Framework (MOF) for Ethylene Hydrogenation	Promenade South	<u>In Soo Kim</u> , <u>Zhanyong Li</u> , <u>Jian Zheng</u> , Leighanne C. Gallington, <u>Andreas Mavrantoukakis</u> , Thomas Webber, Steven Pellizzeri, Nicolaas A. Vermeulen, Rachel Getman, R. Lee Penn, Christopher J. Cramer, Karena W. Chapman, John L. Fulton, Donald M. Camaioni, Johannes A. Lercher, Omar K. Farha, Joseph T. Hupp, and Alex B. F. Martinson
<b>2:10 pm</b>	<b>Presentation #9</b>		
Poster No. 20	Size and Phase Control of a Metal-Organic Framework	Promenade South	<u>Tom Webber</u> , In Soo Kim, Camille Malonzo, Zhao Wang, Wenyang Zhao, Sai Desai, James Moore, Connie Lu, Andreas Stein, Alex B. F. Martinson, Lee Penn
<b>2:30 pm</b>	<b>Conclusions, Theme 2, and Discussion</b>	Promenade South	Chris Cramer
<b>2:40 pm</b>	<b>BREAK</b>	Promenade Foyer	All

## **THEME 3 - ALTERNATIVE MATERIALS AND NOVEL RESEARCH DIRECTIONS** (Chair: Alex Martinson)

<b>3:00 pm</b>	<b>Introduction, Theme 3</b>	Promenade South	Andreas Stein
<b>3:10 pm</b>	<b>Presentation #10</b>		
Poster No. 04	Thermal Stabilization of Metal-Organic Framework-Derived Catalytic Single Sites Through Nanocasting	Promenade South	<u>Camille Malonzo</u> , In Soo Kim, Zhanyong Li, Ana-Platero Prats, Leighanne Gallington, Praveen Bollini, Thomas Webber, <u>Hung Pham</u> , Sai Desai, Timothy Wang, Karena Chapman, Alex Martinson, Omar Farha, Joseph Hupp, Connie Lu, Laura Gagliardi, R. Lee Penn, Aditya Bhan, and Andreas Stein

<b>3:30 pm</b>	<b>Presentation #11</b>		
Poster No. 23	DFT Study of MOF-Node as Support for Tungsten Metathesis Catalyst	Promenade South	Shuanglin Qu, Bo Yang, Christopher J. Cramer, Don Truhlar, Laura Gagliardi and Ian Tonks
<b>3:50 pm</b>	<b>Presentation #12</b>		
Poster No. N/A	Catalytic Behavior of Few-atom Metal Sulfide Clusters Deposited Within the Metal–Organic Framework NU-1000	Promenade South	Aaron W. Peters, Jing Xie, Dale Pahls, Zhanyong Li, Aaron B. League, Christopher J. Cramer, Laura Gagliardi, Omar K. Farha, and Joseph T. Hupp
<b>4:10 pm</b>	<b>Conclusions, Theme 3, and Discussion</b>	Promenade South	Omar Farha
<b>4:20 pm</b>	<b>BREAK</b>	Promenade Foyer	All
<b>4:20 pm</b>	<b>POSTER SETUP</b>	Promenade North	All poster presenters
<b>4:40 pm</b>	<b>Presentations: New Directions</b>		
<b>4:40 pm</b>	Towards an Understanding of Supported Metal Oxides and Sulfides for Chemicals Synthesis	Promenade South	Justin Notestein
<b>4:55 pm</b>	Mechanistic Studies of Heterogeneous Catalytic Systems: A Case Study on Partial Oxidation of Light Olefins	Promenade South	Aditya Bhan
<b>5:10 pm</b>	New Applications of Early Transition Metals in Catalysis	Promenade South	Ian Tonks
<b>5:25 pm to 6:00 pm</b>	Scientific Advisory Board Meeting	Summit Room	Scientific Advisory Board Members only
<b>5:30 pm to 6:30 pm</b>	Informal Breakout Session	Find a Comfortable Space	PIs only
<b>6:00 pm to 6:30 pm</b>	Feedback from the Scientific Advisory Board to the Executive Committee	Summit Room	Laura Gagliardi, Joe Hupp, Bruce Gates, Chris Cramer, Omar Farha, Scientific Advisory Board Members
<b>6:30 pm</b>	<b>BUFFET DINNER</b>	Promenade South	All
<b>8:00 pm to 9:30 pm</b>	<b>POSTER SESSION and DESSERT</b>	Promenade North	Poster session judging by Scientific Advisory Board members
<b>9:30 pm</b>	<b>POSTER REMOVAL</b>	Promenade North	All posters must be out of the room immediately following the end of the poster session
<b>9:30 pm</b>	<b>Meeting Ends (Day One)</b>		



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Tuesday, August 16, 2016**

<b>7:30 am</b>	<b>Registration</b> Continental Breakfast Available	Promenade Foyer	All
<b>8:45 am</b>	<b>Meeting Begins</b> Summary of Day One	Promenade South	Joe Hupp
<b>9:00 am</b>	Discussion: Outcome of the Mid-term Review	Promenade South	Moderator: Connie Lu
<b>10:00 am</b>	<b>BREAK</b>	Promenade Foyer	All
<b>10:15 am</b>	Discussion: Research Directions for Years 3 and 4: High-Throughput; Dow Involvement	Promenade South	Moderator: Rachel Getman
<b>11:15 am</b>	<b>BREAK</b>	Promenade Foyer	Box lunches available for pickup for all who ordered one
<b>11:30 am</b>	Discussion: Renewal Proposal, Closing Remarks	Promenade South	Moderator: Alex Martinson Poster session prizes announcement
<b>12:00 pm</b>	Scientific Advisory Board, Director and Deputy Director	Lexington Room	Laura Gagliardi, Joe Hupp, Scientific Advisory Board
<b>12:30 pm</b>	<b>All-Hands Meeting Adjourns</b>		