



GORDON RESEARCH CONFERENCES

FINAL PROGRESS REPORT

Department of Energy

Organometallic Chemistry GRC/GRS

Grant Number DE-SC0017597

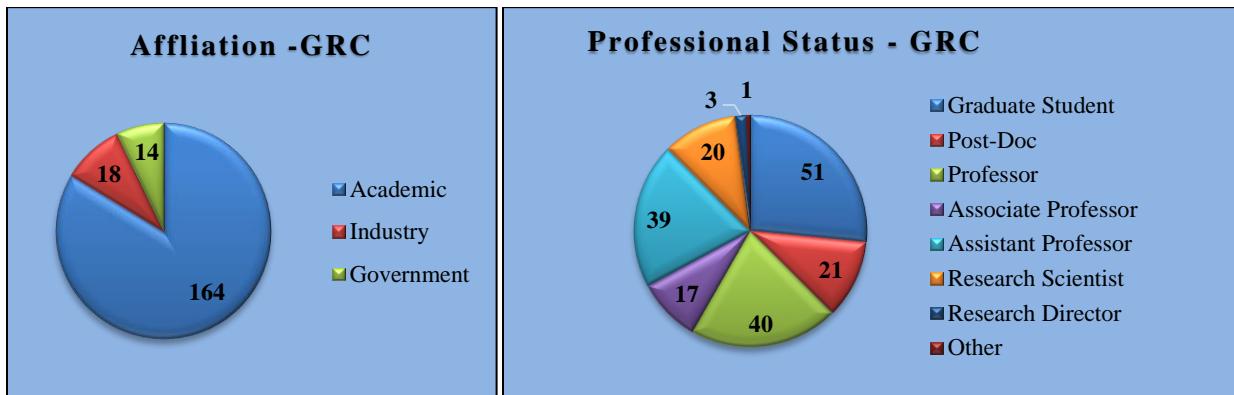
7/8/2017-7/14/2017

Operational Summary

The Gordon Research Conference (GRC) and Gordon Research Seminar (GRS) on Organometallic Chemistry were held at Salve Regina in Newport, RI from July 8th-14th, 2017. The meeting covered a variety of scientific topics and the content presented was highly rated by participants.

Conference Participants

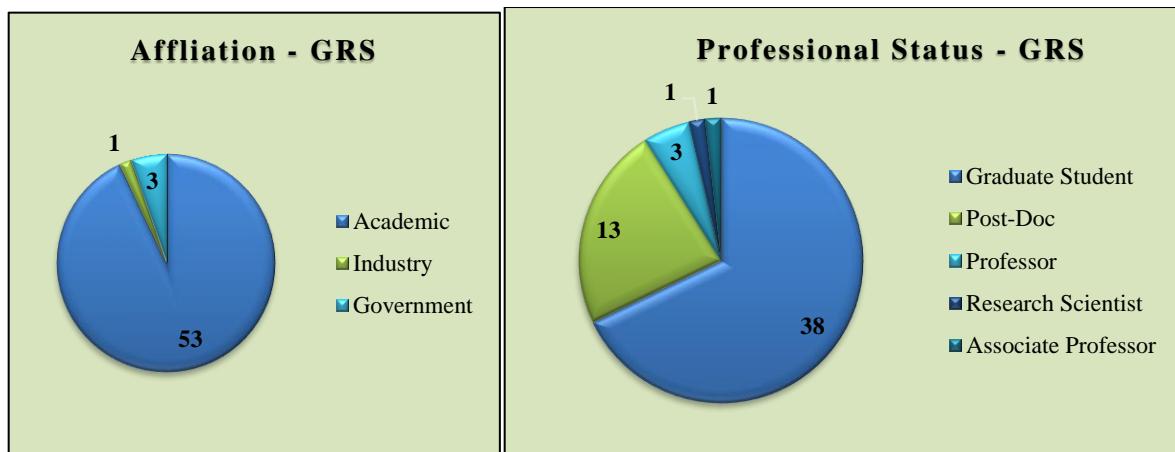
The Conference was well-attended with 196 participants. Scientists from academia represented 84% of the participants while attendees from government accounted for 7% and those from industry totaled 9%. The meeting also attracted a strong mix of young investigators and senior scientists. Students and post-docs accounted for 37% of all attendees. Approximately 26% of the participants at the 2017 meeting were women.



Gordon Research Seminars

Seminar Participants

The Seminar was well-attended with 57 participants. Scientists from academia represented 93% of the participants while attendees from government accounted for 5% and 2% accounted for academics. Students and post docs combined accounted for 90% of all attendees. Approximately 35% of the participants at the 2017 seminar were women.



Conference Program

Organometallic chemistry is an exciting and continually burgeoning field with significant impact on humankind. This fact has been recognized by the recent award of three Nobel Prizes in Chemistry (2001, 2005, 2010) to nine organometallic chemists. Many of the challenges that face society in the 21st century and beyond are intimately entwined with this area of science (sustainable energy, new materials, polymers, fine chemicals and pharmaceuticals, climate change issues), and will require new and significant developments in this field in order to help address these.

The 2017 Organometallic Chemistry Gordon Research Conference highlighted recent developments that span fundamental discovery science to practical application as well as approaches that are required to span the gap between the two. This conference will included participants from the US and abroad. These individuals represented a diverse range of backgrounds and experiences, spanning senior investigators to junior scientists and graduate students from academic, industrial, and National Laboratory settings. The conference program aimed to foster a collegial environment in which the discussion of relevant scientific and technological issues helped promote new scientific directions and the development of future collaborations. All participants were strongly encouraged to contribute to the conference by presenting a poster during one of the afternoon/evening poster sessions.

Conference Budget

Funding provided by the DOE supported partial registration and/or travel for 7 postdocs, 15 graduate students, and 1 associate professor at the GRC and partial registration for 5 graduate students and 2 postdocs at the GRS.

Conference Feedback

Participants had an opportunity to provide feedback at the end of the Conference. The feedback collected from the meeting was extremely positive. Evaluations included numerous positive remarks regarding the informal interactions amongst senior level and early career as well as the poster discussions. Evaluations from the GRS included positive comments regarding the “out of the box” topics discussed.

GRC would like to thank the DOE for its continued support of the meetings. The contributions received have been critical to the success of the conferences and are having a measurable impact in advancing the frontiers of science worldwide.

Dr. John Gordon, GRC Chair
Los Alamos National Laboratory

Dr. Christine Thomas, GRC Vice Chair
Brandeis University

Dr. Mark Reineke, GRS Chair
UC San Diego

Dr. Marcus Drover, GRS Co-Chair
California Institute of Technology

Dr. Nancy Ryan Gray
President and Chief Executive Officer
Gordon Research Conferences

Organometallic Chemistry
Gordon Research Conference

Organometallics in Catalysis, Materials Chemistry, Energy and More

July 9-14, 2017

Salve Regina University
Newport, RI

Chair: John C. Gordon
Vice Chair: Christine M. Thomas

Contributors

 <p><i>Gordon Research Conferences</i></p>	 <p><i>Carl Storm Underrepresented Minority Fellowship</i></p>	 <p>STREM CHEMICALS, INC.</p>
 <p>Inorganic Chemistry including bioinorganic chemistry</p>	 <p>ORGANOMETALLICS</p>	 <p>DOW®</p>
 <p>JACS JOURNAL OF THE AMERICAN CHEMICAL SOCIETY</p>	 <p>BoroPharm, Inc. Your Bridge to Discovery</p>	 <p>BRUKER</p>
 <p>Boulder Scientific Company™ INNOVATIVE SPECIALTY CHEMICAL SOLUTIONS</p>	 <p>Dalton Transactions</p>	 <p>ExxonMobil</p>
 <p>ACS Catalysis</p>	 <p><i>Organic</i> LETTERS</p>	 <p>ACS DIVISION OF INORGANIC CHEMISTRY</p>
 <p>nature chemistry</p>	 <p>Boehringer Ingelheim</p>	 <p>materia™</p>
 <p>POLYHEDRON THE INTERNATIONAL JOURNAL FOR RESEARCH IN INORGANIC CHEMISTRY</p>	 <p>M EMD MILLIPORE</p>	 <p>Lilly</p>



GlaxoSmithKline



The conference is also supported by Argonne National Laboratory, Los Alamos National Laboratory, and the U.S Department of Energy.

Conference Program

Sunday

2:00 pm - 9:00 pm Arrival and Check-in

6:00 pm - 7:00 pm Dinner

7:30 pm - 7:40 pm Introductory Comments by GRC Site Staff / Welcome from the GRC Chair

7:40 pm - 9:30 pm Organometallics in Polymer Chemistry

Discussion Leader: Christine Thomas (Brandeis University, USA)

7:40 pm - 7:50 pm Opening Remarks

7:50 pm - 8:20 pm Rinaldo Poli (Laboratoire de Chimie de Coordination, France)

"Organometallic Mediated Radical Polymerization (OMRP): The Importance of Making and Breaking Metal-Carbon Bonds"

8:20 pm - 8:35 pm Discussion

8:35 pm - 9:05 pm Jeffery Byers (Boston College, USA)

"Using Dynamic and Switchable Polymerization Catalysts to Diversify a Degradable Polymer"

9:05 pm - 9:20 pm Discussion

9:20 pm - 9:30 pm General Discussion

Monday

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm Transition Metal Based Organometallics in Synthesis and Catalysis

Discussion Leader: Michael Chetcuti (University of Strasbourg, France)

9:00 am - 9:30 am Michael Neidig (University of Rochester, USA)
"Intermediates and Mechanism in Iron Catalyzed C-C Bond Formation"

9:30 am - 9:45 am Discussion

9:45 am - 10:15 am Susumu Saito (Nagoya University, Japan)
"Catalytic Hydrogenation of Carboxylic Acids Using Low- and High-Valent Transition Metal Complexes"

10:15 am - 10:30 am Discussion

10:30 am - 11:00 am Coffee Break

11:00 am - 11:30 am Ryan Trovitch (Arizona State University, USA)
"Preparation and Reactivity of Phosphine-Substituted Bis(imino)pyridine and Diimine Molybdenum Compounds"

11:30 am - 11:45 am Discussion

11:45 am - 12:15 pm Massimiliano Delferro (Argonne National Laboratory, USA)
"On the Mechanism of Organo-Platinum Deposition: Effects of Synthesis Techniques on Active Site Nuclearities and Catalytic Nitroaryl Hydrogenation Selectivity"

12:15 pm - 12:30 pm Discussion

12:30 pm - 1:30 pm Lunch

1:30 pm - 4:00 pm Free Time

3:00 pm - 4:00 pm Power Hour
The GRC Power Hour is an optional informal gathering open to all meeting participants. It is designed to help address the challenges women face in science and support the professional growth of women in our communities by providing an open forum for discussion and mentoring.
Organizer: Christine Thomas (Brandeis University, USA)

4:00 pm - 6:00 pm Poster Session

6:00 pm - 7:00 pm Dinner

7:30 pm - 9:30 pm Computational Chemistry and Reaction Mechanisms
Discussion Leader: David Dixon (The University of Alabama, USA)

7:30 pm - 8:00 pm Agusti Lledos (Autonomous University of Barcelona, Spain)

"Radical Pathways in Organometallic Chemistry: A Mechanistic Picture"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:40 pm Sebastian Kozuch (Ben-Gurion University of the Negev, Israel)

"On the Significance of the Energy Representation for Catalytic Cycles. Simpler, Physically Correct, and More Elegant"

8:40 pm - 8:50 pm Discussion

8:50 pm - 9:20 pm Ilya Gridnev (Tohoku University, Japan)

"Are There Any Reasons to Study Reaction Mechanisms?"

9:20 pm - 9:30 pm Discussion

Tuesday

7:30 am - 8:30 am Breakfast

8:30 am - 9:00 am Group Photo

9:00 am - 12:30 pm Energy and Sustainability

Discussion Leader: Mahdi Abu-Omar (University of California, Santa Barbara, USA)

9:00 am - 9:30 am Marcel Schlaf (University of Guelph, Canada)

"Hydrodeoxygenation of Biomass Derived Sugars and Sugar Condensates into Value Added Chemicals and Fuels"

9:30 am - 9:45 am Discussion

9:45 am - 10:15 am Morris Bullock (Pacific Northwest National Laboratory, USA)

"Making and Breaking NH and NN Bonds with Mo and Fe Complexes"

10:15 am - 10:30 am Discussion

10:30 am - 11:00 am Coffee Break

11:00 am - 11:30 am Louise Berben (University of California, Davis, USA)

"C-H Bond Formation with CO₂: Insights on Selectivity and Mechanism from Molecular Iron Electrocatalysts"

11:30 am - 11:45 am Discussion

11:45 am - 12:15 pm Jeffrey Pietryga (Los Alamos National Laboratory, USA)

"Using Ligands to Optimize the Form and Function of Solar-Relevant

Semiconductor Nanocrystals"

12:15 pm - 12:30 pm Discussion

12:30 pm - 1:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm - 7:00 pm Dinner

7:30 pm - 9:30 pm New Reactivity and Transformations

Discussion Leader: Chip Nataro (Lafayette College, USA)

7:30 pm - 8:00 pm David Laitar (Dow Chemical Company, USA)

"Chromium-Catalyzed Ethylene Tetramerization Using Phospholane-Based Ligands"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:40 pm Travis Williams (University of Southern California, USA)

"New Catalytic Architectures for Acceptorless Dehydrogenation"

8:40 pm - 8:50 pm Discussion

8:50 pm - 9:05 pm Aaron Vannucci (University of South Carolina, USA)

"Catalytic Photoredox C-C and C-N Cross-Couplings"

9:05 pm - 9:10 pm Discussion

9:10 pm - 9:25 pm Tulay Atesin (The University of Texas Rio Grande Valley, USA)

"It Is Not Just up to the Substrate: Palladium(0) Cyclizes Nazarov Substrates Through Intramolecular Allylic Alkylation"

9:25 pm - 9:30 pm Discussion

Wednesday

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm Early Metal and f-Block Chemistry

Discussion Leader: Alfred Sattelberger (Argonne National Laboratory, USA)

9:00 am - 9:30 am Jun Okuda (RWTH Aachen University, Germany)

"Molecular Hydrides of Very Early Metals"

9:30 am - 9:45 am Discussion

9:45 am - 10:15 am Marinella Mazzanti (Ecole Polytechnique Federale de Lausanne , Switzerland)

"Activation and Functionalization of Small Molecules by Multimetallic Uranium Complexes"

10:15 am - 10:30 am Discussion

10:30 am - 11:00 am Coffee Break

11:00 am - 11:30 am Stephen Liddle (University of Manchester, United Kingdom)

"Recent Advances in Triamido-Supported Actinide-Ligand Multiple Bonding"

11:30 am - 11:45 am Discussion

11:45 am - 12:00 pm Pavel Dub (Los Alamos National Laboratory, USA)

"What Does the Revised Mechanism of the Noyori Hydrogenation Reaction Mean for Future Catalyst Design?"

12:00 pm - 12:05 pm Discussion

12:05 pm - 12:20 pm David Mills (The University of Manchester, United Kingdom)

"Thorium Redox Chemistry and a New Way to Measure Covalency by Pulsed EPR Spectroscopy"

12:20 pm - 12:25 pm Discussion

12:25 pm - 12:30 pm General Discussion

12:30 pm - 1:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm - 7:00 pm Dinner

7:00 pm - 7:30 pm Business Meeting

Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair

7:30 pm - 9:30 pm Ligand Platforms

Discussion Leader: Marina Petrukhina (University at Albany, SUNY, USA)

7:30 pm - 8:00 pm Guy Bertrand (University of California, San Diego, USA)

"Stable Carbenes and Related Species as Powerful Tools in Organometallic Chemistry"

8:00 pm - 8:10 pm Discussion

8:10 pm - 8:40 pm Antonio Mezzetti (ETH Zurich, Switzerland)
"Base-Metal Enantioselective Catalysts with Chiral P/N Macroyclic and Pincer Ligands"

8:40 pm - 8:50 pm Discussion

8:50 pm - 9:20 pm Geoff Cloke (University of Sussex, United Kingdom)
"Small Molecule Activation Across a Ti-Ti Double Bond"

9:20 pm - 9:30 pm Discussion

Thursday

7:30 am - 8:30 am Breakfast

9:00 am - 12:30 pm Main Group Organometallic Chemistry
Discussion Leader: Gerard Parkin (Columbia University, USA)

9:00 am - 9:30 am Mitch Smith (Michigan State University, USA)
"C-H Borylation: Will the Road Go on Forever?"

9:30 am - 9:45 am Discussion

9:45 am - 10:15 am Eva Hevia (University of Strathclyde, United Kingdom)
"Towards a Paradigm Shift in Main Group Polar Organometallic Chemistry"

10:15 am - 10:30 am Discussion

10:30 am - 11:00 am Coffee Break

11:00 am - 11:30 am Douglas Stephan (University of Toronto, Canada)
"Applications of FLP and Lewis Acid Catalysis"

11:30 am - 11:45 am Discussion

11:45 am - 12:00 pm Lisa Vondung (Philipps-Universitaet Marburg, Germany)
"Ambireactive Boron Based Donor Groups in Iron Complexes: Enabling Different Catalytic Processes by Variation of Temperature and Metal Oxidation State"

12:00 pm - 12:05 pm Discussion

12:05 pm - 12:20 pm William Harman (University of California, Riverside, USA)
"Redox Active Boranes as Ligands and Platforms for Small Molecule Activation"

12:20 pm - 12:25 pm Discussion

12:25 pm - 12:30 pm General Discussion

12:30 pm - 1:30 pm Lunch

1:30 pm - 4:00 pm Free Time

4:00 pm - 6:00 pm Poster Session

6:00 pm - 7:00 pm Dinner

7:30 pm - 9:30 pm New Chemistries from Old Elements

Discussion Leader: Janis Louie (University of Utah, USA)

7:30 pm - 8:10 pm Melanie Sanford (University of Michigan, USA)

"Organometallic Chemistry of Nickel(III) and Nickel(IV)"

8:10 pm - 8:25 pm Discussion

8:25 pm - 9:05 pm Peter Wolczanski (Cornell University, USA)

"Recent Adventures in the First Row of the Transition Elements"

9:05 pm - 9:20 pm Discussion

9:20 pm - 9:30 pm Closing Remarks

Friday

7:30 am - 8:30 am Breakfast

9:00 am Departure

**Organometallic Chemistry
Gordon Research Seminar
New Avenues in Inorganic Synthesis, Structure, and Reactivity**

July 8-9, 2017
Salve Regina University
Newport, RI

Chair: Mark H. Reineke & Marcus W. Drover

Contributors

		
		
The conference is also supported by Argonne National Laboratory, Los Alamos National Laboratory, and the U.S Department of Energy.		

Conference Program

Saturday

2:00 pm - 5:00 pm Arrival and Check-in

3:30 pm - 3:45 pm Introductory Comments by GRC Site Staff / Welcome from the GRS Chair

3:45 pm - 4:30 pm Keynote Session: Utilization of Redox-Active Ligands in the F-Block: From Lanthanides to Uranium and Beyond Discussion Leader: John Gordon (Los Alamos National Laboratory, USA)

3:45 pm - 4:25 pm Suzanne Bart (Purdue University, USA)

"Utilization of Redox-Active Ligands in the F-Block: From Lanthanides to Uranium and Beyond"

4:25 pm - 4:30 pm Discussion

4:30 pm - 6:00 pm Poster Session

6:00 pm - 7:00 pm Dinner

7:30 pm - 9:30 pm Organometallic Catalysis and Mechanism

Discussion Leader: Mark Stradiotto (Dalhousie University, Canada)

7:30 pm - 7:45 pm Joshua Buss (California Institute of Technology, USA)
"Molybdenum-Mediated Carbon Monoxide Reduction, Deoxygenation, and Coupling"

7:45 pm - 7:50 pm Discussion

7:50 pm - 8:05 pm Lillian Hale (University of Michigan, USA)
"Expanding the Reactivity of a Classic Inner-Sphere Hydrogen Transfer Catalyst: Can We Turn on Metal-Ligand Cooperativity?"

8:05 pm - 8:10 pm Discussion

8:10 pm - 8:25 pm Rebecca Kim (Massachusetts Institute of Technology, USA)
"Characterization of Structure and Reactivity of a Dinuclear Pd(III) Catalyst for Methane Functionalization"

8:25 pm - 8:30 pm Discussion

8:30 pm - 8:45 pm Tanner McDaniel (Michigan State University, USA)
"Quantifying Catalysis: Ancillary Ligand Effects and High-Valent Metals"

8:45 pm - 8:50 pm Discussion

8:50 pm - 9:05 pm Liam Sharnghausen (Yale University, USA)
"Synthesis and Characterization of High Oxidation State Iridium Mono- μ -Oxo Dimers Related to Water Oxidation Catalysis"

9:05 pm - 9:10 pm Discussion

9:10 pm - 9:25 pm Kumiko Yamamoto (California Institute of Technology, USA)
"Palladium Catalyzed Aromatic C-H Fluorination"

9:25 pm - 9:30 pm Discussion

Sunday

7:30 am - 8:30 am Breakfast

9:00 am - 11:00 am Frontiers in Organometallic Synthesis and Structure / Mentorship Component: Career Panel
Discussion Leader: Chip Nataro (Lafayette College, USA)

9:00 am - 9:15 am Mary Garner (University of California, Berkeley, USA)
"Redox Non-Innocence and Catalytic Reactivity of NHC-Supported Thorium Complexes"

9:15 am - 9:20 am Discussion

9:20 am - 9:35 am Alexandra Hicken (Imperial College London, United Kingdom)
"Reversible Coordination of Au-H Bonds to Bent Copper(I) Fragments: Characterization and Reactivity of Heterobimetallic Complexes of the Coinage Metals"

9:35 am - 9:40 am Discussion

9:40 am - 9:55 am Wesley Transue (Massachusetts Institute of Technology, USA)
"Toward Catalytic Phosphirane Formation with a Ruthenium Porphyrinogen Platform"

9:55 am - 10:00 am Discussion

10:00 am - 11:00 am Panel Discussion
Careers in Chemistry: Making the Most of Your PhD
Suzanne Bart (Purdue University, USA)
John Gordon (Los Alamos National Laboratory, USA)
Mark Stradiotto (Dalhousie University, Canada)
Christine Thomas (Brandeis University, USA)
David Laitar (Dow Chemical Company, USA)
Chip Nataro (Lafayette College, USA)

11:00 am - 12:30 pm Poster Session
Coffee will be served in the poster area from 11:00 am - 11:30 am

12:30 pm - 1:30 pm Lunch

1:30 pm - 2:30 pm Solving New Problems in Organometallic Chemistry
Discussion Leader: Christine Thomas (Brandeis University, USA)

1:30 pm - 1:45 pm Gemma Adams (University of Oxford, United Kingdom)
"Rhodium Complexes of POP-Type Ligands: Towards Controlled, Metal-Catalyzed, Amine-Borane Dehydropolymerization"

1:45 pm - 1:50 pm Discussion

1:50 pm - 2:05 pm Leon Maser (Philipps-Universität Marburg, Germany)
"Bonding Analysis and Stability of Tautomeric Forms in Carbodiphosphorane-Based Ni-Pincer Complexes"

2:05 pm - 2:10 pm Discussion

2:10 pm - 2:25 pm Demyan Prokopchuk (Pacific Northwest National Laboratory, USA)

"Square Planar Fe(0), Fe(I), and Fe(II) Complexes – N2 Binding Thermodynamics and Their Implications in Catalytic N2 Silylation"

2:25 pm - 2:30 pm Discussion

2:30 pm - 3:00 pm Evaluation Period
Fill in GRS Evaluation Forms

3:00 pm Seminar Concludes

Organometallic Chemistry (2017)

Name	Organization	Participation
Abu-Omar, Mahdi M	University of California, Santa Barbara	Discussion Leader
Adams, Gemma M	University of Oxford	Poster Presenter
Aldrich, Kelly E	Michigan State University	Poster Presenter
Alliger, Glen E	ExxonMobil Chemical	Attendee
Anderson, Nickolas H	Los Alamos National Laboratory	Poster Presenter
Andrews, Michael B	Royal Society of Chemistry	Attendee
Asay, Matthew	UNAM	Poster Presenter
Atesin, Tulay A	The University of Texas Rio Grande Valley	Speaker
Axtell, Jonathan	University of California, Los Angeles	Poster Presenter
Bakhoda, Abolghasem	Georgetown University	Poster Presenter
Barney, Alfred A.	Strem Chemicals Inc.	Attendee
Beattie, Douglas D	University of British Columbia	Poster Presenter
Beil, Sebastian B.	Johannes Gutenberg-University Mainz	Poster Presenter
Berben, Louise A	University of California, Davis	Speaker
Bergman, Robert G	University of California, Berkeley	Attendee
Bertrand, Guy	University of California, San Diego	Speaker
Bloomfield, Aaron J	Department of Chemistry	Poster Presenter
Boncella, James M	Los Alamos National Laboratory	Poster Presenter
Bowring, Miriam A	Reed College	Poster Presenter
Brereton, Kelsey R	University of North Carolina at Chapel Hill	Poster Presenter
Bullock, Morris	Pacific Northwest National Laboratory	Speaker
Burgess, Samantha A	Pacific Northwest National Lab	Poster Presenter
Buss, Joshua A	California Institute of Technology	Poster Presenter
Butcher, Raymond John	Howard University	Attendee
Byers, Jeffery A	Boston College	Speaker
Cai, Irene C	University of California, Berkeley	Poster Presenter
Carpenter, Alex E	ExxonMobil Chemical	Attendee
Chakrabarty, Suman	University of Nebraska-Lincoln	Poster Presenter
Chalkley, Matthew J	California Institute of Technology	Poster Presenter
Chambers, Geoffrey M	Pacific Northwest National Laboratory	Poster Presenter
Chetcuti, Michael	University of Strasbourg	Discussion Leader
Cloke, Geoff N	University of Sussex	Speaker
Comito, Robert J	Massachusetts Institute of Technology	Poster Presenter
Conley, Matthew P	UC Riverside	Poster Presenter
Cook, Amanda K	ETH Zurich	Poster Presenter
Crabtree, Robert H	Yale University	Attendee
Culcu, Gursu	Brandeis University	Poster Presenter
De Luca, Lorena	ETH Zurich	Poster Presenter
del Pozo, Juan	Boston College	Poster Presenter
Delferro, Massimiliano	Argonne National Laboratory	Speaker
Di Giannantonio, Michela	University of Fribourg	Poster Presenter

Ding, Errun	Chevron Phillips	Attendee
Dixon, David A	The University of Alabama	Discussion Leader
Dobereiner, Graham E	Temple University	Poster Presenter
Dobrovetsky, Roman	Tel Aviv University	Poster Presenter
Donovan-Merkert, Bernadette	University of North Carolina at Charlotte	Poster Presenter
Drover, Marcus W	California Institute of Technology	Poster Presenter
Dub, Pavel A.	Los Alamos National Laboratory	Speaker
Duman, Leila M	University of Maryland	Poster Presenter
Dziedzic, Rafal M	University of California, Los Angeles	Poster Presenter
Eizawa, Aya	The University of Tokyo	Poster Presenter
Emmert, Marion H	Worcester Polytechnic Institute	Poster Presenter
Figueroa, Joshua S	Univ. of California, San Diego	Poster Presenter
Funk, Timothy	Gettysburg College	Poster Presenter
Gao, Peng	MilliporeSigma	Poster Presenter
Garcia, Felipe	Nanyang Technological University	Poster Presenter
Garner, Mary E	University of California, Berkeley	Poster Presenter
Goodwin, Conrad A. P.	The University of Manchester	Poster Presenter
Gordon, John C	Los Alamos National Laboratory	Chair
Graham, Peter M	Saint Joseph's University	Poster Presenter
Gramigna, Kathryn	Brandeis University	Poster Presenter
Gridnev, Ilya	Tohoku University	Speaker
Haddad, Nizar	Boehringer Ingelheim Pharmaceuticals Inc.	Poster Presenter
Haibach, Michael	California Institute of Technology	Poster Presenter
Hale, Lillian V	University of Michigan	Poster Presenter
Hanusa, Timothy P	Vanderbilt University	Poster Presenter
Harman, William H	University of California, Riverside	Speaker
Hazari, Nilay	Yale University	Poster Presenter
Heins, Spencer P	Cornell University: Wolczanski Research Group	Poster Presenter
Herbert, David E	University of Manitoba	Poster Presenter
Hevia, Eva	University of Strathclyde	Speaker
Hicken, Alexandra	Imperial College London	Poster Presenter
Hoover, Jessica	West Virginia University	Poster Presenter
Huber, Raffael	ETH Zurich	Poster Presenter
Hulley, Elliott B	University of Wyoming	Poster Presenter
Hyde, Alan M	Merck	Poster Presenter
Iluc, Vlad M	University of Notre Dame	Poster Presenter
Ison, Elon A	North Carolina State University	Poster Presenter
Jeong, Hyangsoo	University of California, Berkeley	Poster Presenter
Jia, Li	The University of Akron	Poster Presenter
Jones, William D	University of Rochester	Poster Presenter
Jordan, Richard F	University of Chicago	Poster Presenter
Kaphan, David M	Argonne National Laboratory	Poster Presenter
Keane, Andrew J	LANXESS Solutions	Attendee

Khaskin, Eugene	Okinawa Institute of Science and Technology	Poster Presenter
Khusnutdinova, Julia R	Okinawa Institute of Science and Technology	Poster Presenter
Kilyanek, Stefan M	University of Arkansas	Poster Presenter
Kim, Daniel	Yale University	Poster Presenter
Kim, Rebecca S	Massachusetts Institute of Technology	Poster Presenter
Kozuch, Sebastian	Ben-Gurion University of the Negev	Speaker
Laitar, David S	Dow Chemical Company	Speaker
Langeslay, Ryan	Argonne National Lab	Poster Presenter
Lapierre, Etienne	University of Calgary	Poster Presenter
Lavallo, Vincent	University of California Riverside	Poster Presenter
Lee, Wei-Tsung	Loyola University Chicago	Poster Presenter
Lee, Eunsung	POSTECH	Poster Presenter
Levin, Mark D	University of California, Berkeley	Poster Presenter
Li, Gang	Princeton University	Poster Presenter
Li, George	GlaxoSmithKline	Poster Presenter
Liddle, Stephen	University of Manchester	Speaker
Liu, Peng	University of Pittsburgh	Poster Presenter
Lledos, Agusti	Autonomous University of Barcelona	Speaker
Lohr, Tracy L	Northwestern University	Poster Presenter
Lou, Sha	Bristol-Myers Squibb	Poster Presenter
Louie, Janis	University of Utah	Discussion Leader
Love, Jennifer A	The University of British Columbia	Poster Presenter
Ma, Lili	Northern Kentucky University	Poster Presenter
Mandla, Kyle A	UCSD - Figueroa Research Group	Poster Presenter
Mankad, Neal P	University of Illinois at Chicago	Poster Presenter
Manke, David R	University of Massachusetts Dartmouth	Poster Presenter
Marshak, Michael P	University of Colorado Boulder	Poster Presenter
Martin, Caleb D	Baylor University	Poster Presenter
Maser, Leon	Philipps-Universität Marburg	Poster Presenter
Mazzanti, Marinella	Ecole Polytechnique Federale de Lausanne	Speaker
McDaniel, Tanner J	Michigan State University	Poster Presenter
Messerle, Louis	University of Iowa	Poster Presenter
Mezzetti, Antonio	ETH Zurich	Speaker
Miller, Susanne L	Michigan State University	Poster Presenter
Mills, David	The University of Manchester	Speaker
Moloy, Kenneth G	National Science Foundation	Attendee
Moon, Patrick J	University of Alberta	Poster Presenter
Mosquera, Marta Elena	Universidad de Alcala	Poster Presenter
Nataro, Chip	Lafayette College	Discussion Leader
Neidig, Michael L	University of Rochester	Speaker
Neufeldt, Sharon R	Montana State University	Poster Presenter
Norton, Jack R	Columbia University	Attendee
O'Connor, Joseph M	UCSD	Poster Presenter

Okuda, Jun	RWTH Aachen University	Speaker
Ozerov, Oleg V	Texas A&M University	Poster Presenter
Papish, Elizabeth T	The University of Alabama	Poster Presenter
Parkin, Gerard	Columbia University	Discussion Leader
Passera, Alessandro	ETH Zurich	Poster Presenter
Perez-Temprano, Monica H	Institute of Chemical Research of Catalonia	Poster Presenter
Peryshkov, Dmitry V	University of South Carolina	Poster Presenter
Petrushina, Marina A	University at Albany, SUNY	Discussion Leader
Phillips, John H	Materia	Attendee
Pietryga, Jeffrey M	Los Alamos National Laboratory	Speaker
Polezhaev, Alexander V	Indiana University, Bloomington	Poster Presenter
Poli, Rinaldo	Laboratoire de Chimie de Coordination	Speaker
Powers, David C	Texas A&M University	Poster Presenter
Prokopchuk, Demyan	Pacific Northwest National Laboratory	Poster Presenter
Reiner, Benjamin R	Brandeis University	Poster Presenter
Roland, Chris D	University of Florida	Poster Presenter
Saito, Susumu	Nagoya University	Speaker
Sanford, Melanie	University of Michigan	Speaker
Saouma, Caroline T	University of Utah	Poster Presenter
Sattelberger, Alfred P	Argonne National Laboratory	Discussion Leader
Schafer, Andrew G	Boulder Scientific Company	Attendee
Schieweck, Benjamin	ITMC RWTH Aachen University	Poster Presenter
Schilter, David	Nature Research	Attendee
Schlaf, Marcel	University of Guelph	Speaker
Schley, Nathan D	Vanderbilt University	Poster Presenter
Schomaker, Jennifer M	University of Wisconsin-Madison	Poster Presenter
Senecal, Todd D	The Dow Chemical Company	Poster Presenter
Shang, Rong	Hiroshima University	Poster Presenter
Sharninghausen, Liam S	Yale University	Poster Presenter
Shen, Qilong	Shanghai Institute of Organic Chemistry	Poster Presenter
Shopov, Dimitar	Yale University	Poster Presenter
Shoshani, Manar M	University of Windsor	Poster Presenter
Singh, Harkesh B	Indian Institute of Technology, Bombay	Poster Presenter
Sinha, Shashi Bhushan	Yale University	Poster Presenter
Sita, Lawrence R	University of Maryland	Poster Presenter
Smith, Mitch M	Michigan State University	Speaker
Somerville, Rosie J	Institute of Chemical Research of Catalonia (ICIQ)	Poster Presenter
Stephan, Douglas	University of Toronto	Speaker
Steves, Janelle E	GlaxoSmithKline	Poster Presenter
Stradiotto, Mark J	Dalhousie University	Poster Presenter
Stubbs, Amanda W	Massachusetts Institute of Technology	Poster Presenter
Szymczak, Nathaniel K	University of Michigan	Poster Presenter
te Grotenhuis, Colet	University of Amsterdam	Poster Presenter

Teets, Thomas S	University of Houston	Poster Presenter
Templeton, Joseph L	University of North Carolina at Chapel Hill	Attendee
Thomas, Christine M	Brandeis University	Vice Chair
Thompson, Richard	University of Maryland-Chemistry	Poster Presenter
Tonks, Ian	University of Minnesota	Poster Presenter
Transue, Wesley J	Massachusetts Institute of Technology	Poster Presenter
Trovitch, Ryan J.	Arizona State University	Speaker
Ung, Gaël	University of Connecticut	Attendee
Uzelac, Marina	University of Strathclyde	Poster Presenter
Vannucci, Aaron K	University of South Carolina	Speaker
von Kugelgen, Stephen W	University of California, Berkeley	Poster Presenter
Vondung, Lisa	Philipps-Universitaet Marburg	Speaker
Wade, Casey	Brandeis University	Poster Presenter
Wagner, Clifton	University of California, Davis	Poster Presenter
Walker, Katherine L	Stanford University	Poster Presenter
Walzer, John F	Exxonmobil Chemical Co.	Attendee
Wang, Zikuan	Peking University	Poster Presenter
Westhues, Stefan	ITMC RWTH Aachen University	Poster Presenter
Williams, Travis J	University of Southern California	Speaker
Wolczanski, Peter T	Cornell University	Speaker
Xu, Hao	Georgia State University	Poster Presenter
Yamamoto, Kumiko	California Institute of Technology	Poster Presenter
Yang, Mengxi	Texas A&M University	Poster Presenter
Yang, Haifeng	Merck & Co., Inc.	Poster Presenter
Yu, Renyuan	ExxonMobil Chemical Company	Attendee
Zhao, Meng	University of Illinois at Chicago	Poster Presenter

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Name	Organization	Participation
Adams, Gemma M	University of Oxford	Speaker
Aldrich, Kelly E	Michigan State University	Poster Presenter
Axtell, Jonathan	University of California, Los Angeles	Poster Presenter
Bakhoda, Abolghasem	Georgetown University	Poster Presenter
Bart, Suzanne C	Purdue University	Speaker
Beattie, Douglas D	University of British Columbia	Poster Presenter
Beil, Sebastian B.	Johannes Gutenberg-University Mainz	Poster Presenter
Bloomfield, Aaron J	Department of Chemistry	Poster Presenter
Brereton, Kelsey R	University of North Carolina at Chapel Hill	Poster Presenter
Buss, Joshua A	California Institute of Technology	Speaker
Comito, Robert J	Massachusetts Institute of Technology	Poster Presenter
Cook, Amanda K	ETH Zurich	Poster Presenter
Culcu, Gursu	Brandeis University	Poster Presenter
del Pozo, Juan	Boston College	Poster Presenter
Drover, Marcus W	California Institute of Technology	Chair
Duman, Leila M	University of Maryland	Poster Presenter
Dziedzic, Rafal M	University of California, Los Angeles	Poster Presenter
Eizawa, Aya	The University of Tokyo	Poster Presenter
Garner, Mary E	University of California, Berkeley	Speaker
Goodwin, Conrad A. P.	The University of Manchester	Poster Presenter
Gordon, John C	Los Alamos National Laboratory	Speaker
Gramigna, Kathryn	Brandeis University	Poster Presenter
Haibach, Michael	California Institute of Technology	Poster Presenter
Hale, Lillian V	University of Michigan	Speaker
Heins, Spencer P	Cornell University: Wolczanski Research Group	Poster Presenter
Hicken, Alexandra	Imperial College London	Speaker
Jeong, Hyangsoo	University of California, Berkeley	Poster Presenter
Kaphan, David M	Argonne National Laboratory	Poster Presenter
Kim, Daniel	Yale University	Poster Presenter
Kim, Rebecca S	Massachusetts Institute of Technology	Speaker
Laitar, David S	Dow Chemical Company	Speaker
Lapierre, Etienne	University of Calgary	Poster Presenter
Levin, Mark D	University of California, Berkeley	Poster Presenter
Li, Gang	Princeton University	Poster Presenter
Mandla, Kyle A	UCSD - Figueroa Research Group	Poster Presenter
Maser, Leon	Philipps-Universität Marburg	Speaker
McDaniel, Tanner J	Michigan State University	Speaker
Moon, Patrick J	University of Alberta	Poster Presenter
Nataro, Chip	Lafayette College	Speaker
Polezhaev, Alexander V	Indiana University, Bloomington	Poster Presenter
Prokopchuk, Demyan	Pacific Northwest National Laboratory	Speaker

Reineke, Mark H	UC San Diego	Chair
Reiner, Benjamin R	Brandeis University	Poster Presenter
Sharninghausen, Liam S	Yale University	Speaker
Shoshani, Manar M	University of Windsor	Poster Presenter
Sinha, Shashi Bhushan	Yale University	Poster Presenter
Somerville, Rosie J	Institute of Chemical Research of Catalonia (ICIQ)	Poster Presenter
Stradiotto, Mark J	Dalhousie University	Speaker
Stubbs, Amanda W	Massachusetts Institute of Technology	Poster Presenter
te Grotenhuis, Colet	University of Amsterdam	Poster Presenter
Thomas, Christine M	Brandeis University	Speaker
Thompson, Richard	University of Maryland-Chemistry	Poster Presenter
Transue, Wesley J	Massachusetts Institute of Technology	Speaker
Vondung, Lisa	Philipps-Universitaet Marburg	Poster Presenter
Wagner, Clifton	University of California, Davis	Poster Presenter
Yamamoto, Kumiko	California Institute of Technology	Speaker
Yang, Mengxi	Texas A&M University	Poster Presenter

57 Attendees