## ACS Spring 2023

Sunday, March 26, 2023 - Thursday, March 30, 2023

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Room</th>
<th>Location</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>08:00AM - 11:40AM</td>
<td>Remembering the Legacy of Synthetic Aza Macrocycles:</td>
<td>Room 209</td>
<td>Room 209</td>
<td>Kristin Bowman-James</td>
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<td>Room: Room 209</td>
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<td></td>
<td>Professor</td>
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<td>Prof. Timothy J. Hubin, PhD</td>
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<td>Prof. of Chemistry</td>
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<td>Thomas Meade</td>
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<td>Rebecca Roesner</td>
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<td>Kenneth Takeuchi</td>
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<td>08:00AM - 08:10AM</td>
<td>Introductory Remarks</td>
<td>Room 209</td>
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<td>Chip Nataro Marshall R.</td>
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<td>Metzgar Professor</td>
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<tr>
<td>08:00AM - 11:00AM</td>
<td>Undergraduate Research at the Frontiers of Inorganic Chemistry:</td>
<td>Room 236</td>
<td>Room 236</td>
<td>Meghan Porter</td>
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<td>08:00AM - 08:05AM</td>
<td>Introductory Remarks</td>
<td>Room 236</td>
<td>Room 236</td>
<td>Meghan Porter</td>
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<td>08:00AM - 11:10AM</td>
<td>Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator:</td>
<td>Sagamore Ballroom 3</td>
<td>Sagamore Ballroom 3</td>
<td>Dr. Eszter Boros Assistant Professor</td>
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<td>Symposium in Honor of Justin Wilson</td>
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<td>Timothy C. Johnstone</td>
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<td>08:00AM - 08:10AM</td>
<td>Introductory Remarks</td>
<td>Sagamore Ballroom 3</td>
<td>Sagamore Ballroom 3</td>
<td>Ryan O'Donnell</td>
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<tr>
<td>08:00AM - 11:00AM</td>
<td>Physical Inorganic Tutorials</td>
<td>Room 210</td>
<td>Room 210</td>
<td>Jeffrey Rack</td>
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<tr>
<td>08:00AM - 08:45AM</td>
<td>3822131 - Fundamentals of energy and electron transfer processes:</td>
<td>Room 210</td>
<td>Room 210</td>
<td>James McCusker</td>
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<td>Theory and practice</td>
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<td>08:00AM - 11:00AM</td>
<td>Bioinorganic Chemistry, Energy, and the Environment:</td>
<td>Room 237</td>
<td>Room 237</td>
<td>Deborah Bebout</td>
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<td>Room: Room 237</td>
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<td>Nathan Boland</td>
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<td>Dr Stephen A. Koch Professor</td>
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<td>Heather Lucas</td>
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<td>Time</td>
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<td>08:00AM - 08:20AM</td>
<td>Evidence of catalysis of multidentate ligand exchange by small organic ligands</td>
<td>Nathan Boland, Liza Briody-Pavlik, Andrew Wildman, Haven Dick-Neal, Zhihong Huang, Rebecca Hoffman, Kaylie McCracken</td>
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| 08:00AM - 10:55AM | Sustainable Energy and Environment: Chemical Transformations and Catalytic Conversions | Matthew Chambers, Guanqun Han, Claus Lugmair |}

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<th>Time</th>
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<tr>
<td>08:00AM - 08:20AM</td>
<td>Diversifying hydrocarbon functionalization selectivity mediated by metal oxo complexes</td>
<td>Siddhiaratchi Dinushini, Siddhiaratchi, Courtney Baumberger, Saeed Fosshat PhD Candidate, Frank Fronczek, Matthew Chambers</td>
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<td>08:00AM - 12:00PM</td>
<td>2023 Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Robert J. Gilliard, Jr.</td>
<td>Roman Dobrovetsky, Todd Hudnall, Caleb Martin</td>
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<td>08:00AM - 08:05AM</td>
<td>Introductory Remarks</td>
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<tr>
<td>08:00AM - 11:40AM</td>
<td>Organometallic Chemistry: New Design Concepts &amp; Reactivity Patterns</td>
<td>Joshua Buss, Nora Radu, Keith Searles, Jingyun Ye</td>
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<tr>
<td>08:00AM - 08:20AM</td>
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<td>08:00AM - 11:55AM</td>
<td>2023 Alfred Bader Award in Bioinorganic Chemistry: Symposium in Honor of R. David Britt</td>
<td>R Brit, Alison Butler Professor Daniel Suess</td>
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<td>08:00AM - 08:05AM</td>
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<td>08:05AM - 08:25AM</td>
<td>Synthesis and reactivity of an iron tricarbonyl complex containing redox-active iminopyridine ligand</td>
<td>Lauren Peck, Maria Carroll</td>
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<td>08:05AM - 08:25AM</td>
<td>Chemistry of novel geometrically constrained PIII cations</td>
<td>Roman Dobrovetsky</td>
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<td>08:05AM - 08:30AM</td>
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<td>08:10AM - 08:40AM</td>
<td>3827839</td>
<td>NexSTEM: A community assets program that fosters the next generation of STEM leaders</td>
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<td>3806546</td>
<td>Examining rhenium coordination compounds as cysteine-reactive, bioactive molecules</td>
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<td>3816443</td>
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<td>08:20AM - 08:40AM</td>
<td>3819728</td>
<td>Two-photon-absorbing ruthenium complexes enable near infrared light-driven photocatalysis</td>
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<td>08:20AM - 08:40AM</td>
<td>3803939</td>
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<td>08:25AM - 08:45AM</td>
<td>3812865</td>
<td>Synthesis and characterization of Schiff-Base ligands and manganese coordination complexes</td>
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<td>08:25AM - 08:45AM</td>
<td>3818118</td>
<td>Cationic main-group compounds as ligands and transition metal mimics</td>
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<td>08:30AM - 08:50AM</td>
<td>3805665</td>
<td>Progress in the development of small-molecule carbon monoxide poisoning antidotes</td>
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<td>08:30AM - 08:55AM</td>
<td>3817568</td>
<td>Where are the electrons in iron-sulfur clusters?</td>
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<td>08:40AM - 09:00AM</td>
<td>3822689</td>
<td>Heterobimetallic f-element complexes supported by a tripodal ligand</td>
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<td>08:40AM - 09:00AM</td>
<td>3820879</td>
<td>Switchable artificial metalloproteins to probe conformational control in enzyme function</td>
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<td>08:40AM - 09:00AM</td>
<td>3825092</td>
<td>Tuning electrocatalytic CO2 reduction in CO2-expanded electrolytes</td>
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| 08:40 AM   | 3819368    | Cp2Till mediated rearrangement of cyclopropylimines: Models for alkyne carboamination | Room 212              | jaekwan kim
                                                        |                        |                                           | Dominic Egger           |
                                                        |                        |                                           | Connor Frye            |
                                                        |                        |                                           | Evan Beaumier           |
                                                        |                        |                                           | Ian Tonks               |
| 08:45 AM   | 3824891    | Copper(I) CNC pincer complexes: Synthesis, characterization, and opportunities for catalysis | Room 236              | Austin Rongo
                                                        |                        |                                           | Nicole Garcia           |
                                                        |                        |                                           | Katelynn O'Donnell      |
                                                        |                        |                                           | Michael Gau            |
                                                        |                        |                                           | Patrick Carroll         |
                                                        |                        |                                           | Deanna Zubris           |
| 08:45 AM   | 3821586    | Frontiers in NMR spectroscopy                                         | Room 210              | Martha Morton                                    |
| 08:45 AM   | 3816538    | Cyaphide ion: A versatile bridging ligand for the synthesis of multi-metallic complexes | Room 206              | Jose Goicoechea                                  |
| 08:50 AM   | 3812091    | Manganese carbonyl reactivity with aqueous hydrogen peroxide          | Sagamore Ballroom 3   | Peter Ford
                                                        |                        |                                           | Jacob Barrett           |
                                                        |                        |                                           | Madalyn Phan            |
| 08:55 AM   | 3817153    | Mysteries of [FeFe]-hydrogenases: Where no Britt would tread          | Room 205              | Tom Thomas Rauchfuss
                                                        |                        |                                           | Professor               |
                                                        |                        |                                           | Yu Zhang                |
| 09:00 AM   | 3828692    | Synthetic approaches to understanding the metal ion miscellany of metallothionein | Room 237              | Deborah Bebout
                                                        |                        |                                           | Haley Brennan           |
                                                        |                        |                                           | Mary Chason             |
                                                        |                        |                                           | Joshua Sacks            |
                                                        |                        |                                           | Pie Wang                |
                                                        |                        |                                           | Steven Berry            |
                                                        |                        |                                           | Ray Butcher             |
                                                        |                        |                                           | Lukasz Wojtas           |
                                                        |                        |                                           | Robert Pike             |
| 09:00 AM   | 3825458    | Biomass upconversion with functionalized metal-organic frameworks     | Room 208              | Kaushalya Korathotage
                                                        |                        |                                           | Eric Bloch              |
| 09:00 AM   | 3821008    | C–H activation at extremes: High- and low-valent multimetallic approaches to C–H bond manipulation | Room 212              | Hayley Lillo
                                                        |                        |                                           | Michela Maiola          |
                                                        |                        |                                           | Joshua Buss             |
| 09:05 AM   | 3817045    | Examination of the donor capabilities of 3,4,5-trifluorophenyl- and 3,5-bis(trifluoromethyl)phenyltris(pyrazol-1-yl)borate ligands | Room 236              | Paul Fischer
                                                        |                        |                                           | Charley Roe             |
                                                        |                        |                                           | Jasmine Stephenson       |
                                                        |                        |                                           | Victor Young, Jr.        |
| 09:05 AM   | 3818962    | Catalytic olefin phosphiranation                                       | Room 206              | Tianxi Xin
<pre><code>                                                    |                        |                                           | Martin-Louis Riu         |
                                                    |                        |                                           | Michael Geeson          |
                                                    |                        |                                           | Christopher Cummins     |
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<tr>
<td>09:10AM - 09:40AM</td>
<td>3820422</td>
<td>Geometric and electronic influences on the reactivity of Mn complexes with aza macrocyclic ligands and beyond</td>
<td>Room 209</td>
<td>Timothy Jackson Professor</td>
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<tr>
<td>09:10AM - 09:30AM</td>
<td>3814639</td>
<td>Gas reagent delivery for organic and medicinal chemistry</td>
<td>Room 209</td>
<td>Phillip Milner</td>
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<td>09:20AM - 09:40AM</td>
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<td>09:20AM - 09:35AM</td>
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<td>09:20AM - 09:40AM</td>
<td>3823636</td>
<td>Tellurolate as an effective Te-atom transfer reagent to assemble the triad of group 5 metal bis(tellurides)</td>
<td>Room 212</td>
<td>Shuruthi Senthil, Seongyeon Kwon, Pavel Zatsepin, Michael Gau, Patrick Carroll, Mu-Hyun Baik, Daniel Mindiola</td>
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<tr>
<td>09:20AM - 09:45AM</td>
<td>3827031</td>
<td>Mechanism of radical initiation in radical SAM enzymes</td>
<td>Room 205</td>
<td>Joan Broderick</td>
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<td>09:25AM - 09:40AM</td>
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<td>09:25AM - 09:45AM</td>
<td>3808542</td>
<td>One- and two-electron bismuth redox cataysis</td>
<td>Room 206</td>
<td>Josep Cornella</td>
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<td>09:30AM - 09:50AM</td>
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<td>09:30AM - 10:15AM</td>
<td>3826863</td>
<td>Nuts and bolts of density functional theory for (not only) inorganic chemists</td>
<td>Room 210</td>
<td>Elena Jakubikova Professor</td>
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<td>09:35AM - 09:55AM</td>
<td>3826234</td>
<td>Oxidative transformation of organic geopolymers using chlorite and bromate for sustainable energy production</td>
<td>Room 208</td>
<td>Katherine Hull, Linh Mai, Simon Singh, Veronica Bracken</td>
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<td>09:40AM - 10:00AM</td>
<td>3819826</td>
<td>Tuning cobalt(II) phosphine complexes to be axially ambivalent</td>
<td>Room 236</td>
<td>Jack Thomas-Colwell, Bryan Hunter, Michael Hill</td>
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<td>09:40AM - 10:00AM</td>
<td>3824761</td>
<td>Looking past the secondary sphere: Relating dynamics to catalytic activity in nickel-substituted rubredoxin, a model hydrogenase</td>
<td>Room 237</td>
<td>Ashlee Wertz, Riley Stein, Peter Moore, Hannah Shafaat</td>
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<td>09:40AM - 10:00AM</td>
<td>3824799 - Small molecule activation with porous salts</td>
<td>Kyle Korman, Eric Bloch</td>
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<td>09:45AM - 10:00AM</td>
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<td>09:45AM - 10:15AM</td>
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<td>09:50AM - 10:10AM</td>
<td>3826141 - Modulating transcription in development and cancer:</td>
<td>Meghan Dukes, Robert Holmgran, Thomas Meade</td>
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<td>Transition metal inhibition of transcription factors</td>
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<td>interactions between molecular catalytic units on electrocatalytic</td>
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<td>CO2 conversion</td>
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<td>10:00AM - 10:30AM</td>
<td>3823184 - Electron-rich organometallics featuring redox non-innocent</td>
<td>Dr. Mikhail Barybin</td>
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<td>bi- and terazulenic -?-linkers</td>
<td>Professor</td>
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<td>10:00AM - 10:20AM</td>
<td>3824555 - Multidentate CMPO ligands for f-element separations</td>
<td>Eric Werner, Shannon Biros</td>
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<td>10:00AM - 10:20AM</td>
<td>3825420 - Metal affinity comparison of primordial chelatases CbiXS</td>
<td>Jacob Morris, Megan Lavigne, Matthew Liptak</td>
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<td>and CfbA</td>
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<td>10:00AM - 10:20AM</td>
<td>3814409 - Novel organosilicon monomers for functional polysilanes</td>
<td>Rebekka Klausen</td>
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<td>10:00AM - 10:20AM</td>
<td>3825526 - Understanding the reactivity, selectivity and deactivation</td>
<td>Jingyun Ye, Megan McEwen</td>
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<td>of frustrated Lewis pairs for alkyne semihydrogenation</td>
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<td>10:00AM - 12:50PM</td>
<td>- Solid-State Inorganic Chemistry: Materials and Design</td>
<td>Narayan Acharya, Gabrielle Harmon, Viktor V</td>
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<td>Poltavets, Ph.D., Assistant Professor</td>
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<td>Kinithi Wickramaratne</td>
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<td>10:00AM - 10:20AM</td>
<td>3816271 - Performances of Zr-Al-Ti thin film metallic glass against</td>
<td>Mohammed Noor-A-Alam</td>
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<td>corrosion when fabricated in layered architecture with thickness in</td>
<td>Israq Shabib</td>
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<td>10:10AM - 10:30AM</td>
<td>3827750 - Ru(II) complexes for dual-activity photoinduced therapy</td>
<td>Claudia Turro</td>
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<td>applications: Drug delivery and singlet oxygen production with red light</td>
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<td>10:15AM - 11:00AM</td>
<td>3825544 - Photoluminescence spectroscopy</td>
<td>Felix Castellano</td>
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Tuesday, March 28, 2023

10:15AM - 10:35AM
3826430 - Electrochemically controlled %CO incorporation of polyketones derived from carbon dioxide and ethylene
Room: Room 208
Brandon Jolly

10:15AM - 10:40AM
3808933 - Rewiring radical SAM enzymes
Room: Room 205
Troy Stich
Luke Humble

10:20AM - 10:40AM
3826411 - Mechanistic investigation into the activation of Si-H and Si-Si bonds by transition metal complexes
Room: Room 236
Morgan Puglisi
Serge Schreiner

10:20AM - 10:40AM
3826959 - Computational model for the active site of a novel terminal C-H functionalizing membrane monooxygenase
Room: Room 237
Atiya Banerjee
Dr. Mehmed Zahid Ertem
Chemist
John Shanklin
Qun Liu

10:20AM - 10:40AM
3807480 - Ligands that support metal-to-carbon dative bonding
Room: Room 206
Francois Gabbai

10:20AM - 10:40AM
3825783 - Heterogeneous catalysts designed for reduction of aromatic substrates utilizing organometallic precursors
Room: Room 212
Keith Searles

10:20AM - 10:40AM
3820755 - Creating solid solutions of metallocenes: Migration of nickelocene into the ferrocene crystal lattice in the absence of a solvent
Room: Virtual Session
Gabrielle Harmon
John Hoefler
Martha Trujillo
Vladimir Bakhmutov
Janet Bluemel

10:30AM - 11:00AM
3828830 - First proof of Thorpe-Ingold steric effects and surprising electronic effects in the Richman-Atkins cyclization of azamacrocycle ligands
Room: Room 209
Megan Sibley
Brandon Wackerle
Leonardo Duarte
Paul Popelier
Colin McMillen
Modi Wetzler

10:30AM - 10:50AM
3828211 - New tools for imaging biometals: Shining light on cellular magnesium and more
Room: Sagamore Ballroom 3
Michael Brady
Elsy El Khoury
Symara de Melo Silva
Daniela Buccella

10:35AM - 10:55AM
3828541 - Small molecule activation coupled with metal carbonyl reduction: Progress towards a molecular CO2 to methanol cascade
Room: Room 208
Allison Smith
Jake Sirlin
Andressa Müller
Renato Sampaio
Javier Concepcion
Gerald Meyer
Alexander Miller

10:40AM - 11:00AM
3828005 - Characterizing the kinetics and thermodynamics of Fe(III)-thiolate reactions near physiological pH
Room: Room 236
Levi Ekanger
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<th>Speakers</th>
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</thead>
<tbody>
<tr>
<td>10:40AM - 11:00AM</td>
<td>3828979 - Earth-abundant transition metal catalysts for bio-inspired oxidative transformations</td>
<td>Room 237</td>
<td>Heather Lucas</td>
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<td>10:40AM - 11:00AM</td>
<td>3826260 - Heterocyclic fused carbenium ions as carbon-based Lewis acids</td>
<td>Room 206</td>
<td>Aslam Shaikh, Jose Veleta, Thomas Gianetti</td>
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<td>10:40AM - 11:00AM</td>
<td>3825955 - REMP catalysts with unusual ancillary ligands</td>
<td>Room 212</td>
<td>Rinku Yadav, Alec Esper, Dr. Ion Ghiviriga, Scientist Khalil Abboud, Daniel Lester, Christian Ehm, Adam Veige</td>
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<td>10:40AM - 11:05AM</td>
<td>3819882 - How nature fertilizes the earth: The nitrogenase mechanism, and the roles played by the FeMo-Co-factor CFe6 core and ‘capping’ Mo and Fe ions</td>
<td>Room 205</td>
<td>Brian Hoffman</td>
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<td>10:40AM - 11:00AM</td>
<td>3825316 - Electrocatalytic oxygen evolution reaction (OER) and hydrogen evolution reaction (HER) using earth-abundant metal oxide catalyst</td>
<td>Virtual Session</td>
<td>Narayan Acharya, Surendra Karki, Farshid Ramezanipour</td>
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<tr>
<td>10:50AM - 11:10AM</td>
<td>3821537 - Engineering intracellular iron sequestration to target cancer growth</td>
<td>Sagamore Ballroom 3</td>
<td>Elisa Tomat</td>
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<tr>
<td>11:00AM - 11:40AM</td>
<td>- Concluding Remarks</td>
<td>Room 209</td>
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<tr>
<td>11:00AM - 11:20AM</td>
<td>3816718 - Multiple reaction pathways for isolable carbenes and NH containing materials</td>
<td>Room 206</td>
<td>John Protasiewicz</td>
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<td>11:00AM - 11:20AM</td>
<td>3827697 - Withdrawn</td>
<td>Room 212</td>
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<td>11:00AM - 11:20AM</td>
<td>3827443 - Synthesis of Na0.4 WS2 and stability of the metastable 2M-WS2 phase</td>
<td>Virtual Session</td>
<td>Joseph McBride, Sabin Gautam, Plumi Samarawickrama, Jifa Tian, Brian Leonard, Associate Professor</td>
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<tr>
<td>11:05AM - 11:30AM</td>
<td>3817046 - Mechanistic and spectroscopic studies of nitrate reductase</td>
<td>Room 205</td>
<td>Jarett Wilcoxen</td>
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<tr>
<td>11:20AM - 11:40AM</td>
<td>3817118 - Mesoionic carbenes as powerful organocatalysts</td>
<td>Room 206</td>
<td>Guy Bertrand</td>
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<td>11:20AM - 11:40AM</td>
<td>Methylation of mercury by Pseudodesulfovibrio mercurii exposed to dissolved and nanoparticulate mercuric sulfide with the presence of selenium</td>
<td>MD SAYEDUZZAMAN SARKER SARKER Habibollah Fakhraei</td>
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<td>11:20AM - 11:30AM</td>
<td>Intermission</td>
<td>Room: Virtual Session</td>
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<td>11:30AM - 11:55AM</td>
<td>Discovery and engineering of radical halogenases</td>
<td>Michelle Chang</td>
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<td>11:30AM - 11:50AM</td>
<td>Active electrocatalysts based on structurally ordered oxides for oxygen-evolution reaction</td>
<td>Farshid Ramezanipour Surendra Karki Ram Hona</td>
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<tr>
<td>11:40AM - 12:00PM</td>
<td>Domesticating the reactivity of non-octet carbon toward plethora of chemistry</td>
<td>Professor Tiow-Gan Ong</td>
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<td>11:50AM - 12:10PM</td>
<td>Oxygen-vacancy ordered perovskite oxide as a highly efficient hydrogen evolution electrocatalyst</td>
<td>Kinithi Wickramaratne Farshid Ramezanipour</td>
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<tr>
<td>12:10PM - 12:30PM</td>
<td>Quasi-2D oxides as bifunctional electrocatalysts for water splitting</td>
<td>Md. Sofiul Alom Graduate Student Farshid Ramezanipour</td>
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<td>12:30PM - 12:50PM</td>
<td>Impact of structural symmetry on electrocatalysis for water splitting using two isoelectronic oxides</td>
<td>Chandana Kananke Gamage Farshid Ramezanipour</td>
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<tr>
<td>02:00PM - 02:25PM</td>
<td>Advancing metallo-protein function through collaborative with R. David Britt</td>
<td>Michael Marletta</td>
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<tr>
<td>02:00PM - 02:05PM</td>
<td>Introductory Remarks</td>
<td>Room: Room 206</td>
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<tr>
<td>02:00PM - 05:45PM</td>
<td>2023 Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Robert J. Gilliard, Jr.</td>
<td>Roman Dobrovetsky Todd Hudnall</td>
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<tr>
<td>02:00PM - 06:00PM</td>
<td>2023 Alfred Bader Award in Bioinorganic Chemistry: Symposium in Honor of R. David Britt</td>
<td>R Britt Alison Butler Professor Daniel Suess</td>
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<tr>
<td>02:00PM - 02:30PM</td>
<td>Unconventional applications of 2D materials from memory devices to Covid sensors and wearable health</td>
<td>Deji Akinwande</td>
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<td>02:00PM - 05:30PM</td>
<td>2023 ACS Award in the Chemistry of Materials: Symposium in Honor of Reshef Tenne:</td>
<td>Maya Bar Sadan Sara Skrabalak Mauricio Terrones</td>
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<td>Room: Room 238</td>
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<tr>
<td>02:00PM - 04:20PM</td>
<td>Organometallic Chemistry: Experimental &amp; Computational Mechanistic Investigation</td>
<td>Room: Room 212</td>
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<td>Dr. Pere Miro Assistant Professor</td>
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<td>Brooke Otten</td>
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<td>Nora Radu</td>
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<td>02:00PM - 02:20PM</td>
<td>Mechanistic investigation of the rhodium-catalyzed transfer hydroarylation between tertiary alcohols and ketones</td>
<td>Room: Room 212</td>
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<td>Marius Lutz</td>
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<td>Sven Roediger</td>
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<td>Valentina Gasser</td>
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<td>Bill Morandi Prof.</td>
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<td>02:00PM - 05:35PM</td>
<td>Solid-State Inorganic Chemistry: Materials and Design</td>
<td>Room: Room 237</td>
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<td></td>
<td>Dr. Georgiy Akopov Assistant Professor</td>
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<td>Dr Matthew S Chambers Postdoctoral Research Associate</td>
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<td>Viktor V Poltavets , Ph.D. Assistant Professor</td>
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<td>Surya Vatti</td>
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<td>02:00PM - 02:20PM</td>
<td>Fluorescent chemosensor based on tin(IV) halide complexes for multi-halide sensing applications</td>
<td>Room: Room 237</td>
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<td>Wooseok Ki</td>
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<td>Andrew Wu</td>
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<td>Safah Panah</td>
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<td>Patrick Hillesheim</td>
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<td>02:00PM - 04:40PM</td>
<td>Harry Gray Award for Creative Work in Inorganic Chemistry by a Young Investigator: Symposium in Honor of Justin Wilson</td>
<td>Room: Sagamore Ballroom 3</td>
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<td>Dr. Eszter Boros Assistant Professor</td>
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<td>Timothy C. Johnstone</td>
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<td>02:00PM - 02:20PM</td>
<td>Chelation platform development for emerging medical radionuclides at Oak Ridge National Laboratory</td>
<td>Room: Sagamore Ballroom 3</td>
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<td></td>
<td>Megan Simms</td>
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<td>Briana Schrage</td>
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<td>Alexander Ivanov R&amp;D staff scientist</td>
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<td>Caroline Lara</td>
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<td>Dr. Nikki A Thiele</td>
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<td>02:00PM - 05:00PM</td>
<td>Physical Inorganic Tutorials:</td>
<td>Room: Room 210</td>
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<tr>
<td></td>
<td>Ryan O'Donnell</td>
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<td>Jeffrey Rack</td>
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<td>02:00PM - 02:45PM</td>
<td>Principles of transient absorption spectroscopy:</td>
<td>Room: Room 210</td>
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<td>Claudia Turro</td>
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<td>02:00PM - 04:20PM</td>
<td>Sustainable Energy and Environment: Electrochemical Energy Storage and Conversion</td>
<td>Room: Room 208</td>
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<td>Dr Allen Apblett , Ph.D, FACS Professor</td>
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<td>Jorge L Colon , Ph.D. Professor</td>
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<td>Sameh Elsaidi</td>
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<td>Kenneth Takeuchi</td>
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<td>02:00PM - 02:20PM</td>
<td>Sustainable prevention and remediation of plant nutrients via sorbent-to-fertilizer technology</td>
<td>Room: Room 208</td>
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<td>Dr Allen Apblett , Ph.D, FACS Professor</td>
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<td>Ciara Kelley</td>
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<td>Patrick Kitzel</td>
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<td>02:00PM - 04:40PM</td>
<td>Nanoscience: Synthesis, Characterization and Properties of Nanomaterials and Their Hierarchical Structures: Room: Room 236</td>
<td>Annie Regan, Alison Roth, Brian Trewyn</td>
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<tr>
<td>02:00PM - 02:20PM</td>
<td>From 1D silver nanowires to 3D electrically conductive and mechanically resistant lightweight aerogel architectures Room: Room 236</td>
<td>JP Simonato</td>
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<td>02:05PM - 02:25PM</td>
<td>New vistas in carbon-sulfur bond forming reactions as part of a green materials economy Room: Room 206</td>
<td>Rhett Smith</td>
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<td>02:20PM - 02:40PM</td>
<td>Exploring the reaction between gold(I) trinuclear complexes and methyl iodide Room: Room 212</td>
<td>Brooke Otten</td>
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<td>02:20PM - 02:40PM</td>
<td>Synthesis and crystal growth of luminescent lanthanide iodothiosilicates Ln3(SiS4)I Room: Room 237</td>
<td>Dr. Georgiy Akopov, Assistant Professor Nethmi Hewage Gayatri Viswanathan Roger Lalancette Kirill Kovnir</td>
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<td>02:20PM - 02:40PM</td>
<td>New approaches for implementing short-lived actinides in medicine Room: Sagamore Ballroom 3</td>
<td>Joshua Woods, Alexia Cosby, Jennifer Wacker, Trevor Arino, Rebekah Aldrich, Rebecca Abergel</td>
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<td>02:20PM - 02:40PM</td>
<td>Earth-abundant electrocatalysts for the oxygen evolution reaction (OER) supported on nanostructured layered inorganic nanomaterials Room: Room 208</td>
<td>Jorge L. Colon, Ph.D., Professor</td>
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<td>02:20PM - 02:40PM</td>
<td>Withdrawn Room: Room 236</td>
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<td>02:25PM - 02:50PM</td>
<td>Metallobiochemistry and RNA: The platinum expansion Room: Room 209</td>
<td>Victoria DeRose, Hannah Pigg, Matthew Yglesias, Andres Guerrero, Katelyn Alley</td>
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<td>02:25PM - 02:45PM</td>
<td>Stereochemical outcomes in the mechanochemical environment: The case of main-group allyl complexes Room: Room 206</td>
<td>Timothy Hanusa</td>
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<td>02:30PM - 03:00PM</td>
<td>3812845 - Symmetry progression and possible polar metallicity in NiPS3 under pressure</td>
<td>Janice Musfeldt, Nathan Harms, Takahiro Matsuoka, Subhasis Samanta, Amanda Clune, Kevin Smith, Amanda Haglund, Erxi Feng, Huibo Cao, Jessie Smith, David Mandrus, Heung-Sik Kim, Zhenxian Liu</td>
<td>Room 238</td>
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<td>02:40PM - 03:00PM</td>
<td>3825403 - Nucleation mechanisms and redox profiles of polyoxovanadate-alkoxides clusters</td>
<td>Dr. Pere Miro, Assistant Professor S M GULAM RABBANI, Sable Schulz, Katherine Dalton</td>
<td>Room 212</td>
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<td>02:40PM - 03:00PM</td>
<td>3826452 - Molten salt synthesis of nanophosphors with high quantum efficiency</td>
<td>Yuchen Zhang, Yuanbing Mao</td>
<td>Room 237</td>
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<td>02:40PM - 03:00PM</td>
<td>3807294 - From isotopes to accelerators</td>
<td>Dr. Eva Birnbaum, PhD Program Manager</td>
<td>Room: Sagamore Ballroom 3</td>
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<td>02:40PM - 03:00PM</td>
<td>3826844 - Smartly engineered materials for nuclear waste management</td>
<td>Sameh Elsaidi</td>
<td>Room 208</td>
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<td>02:40PM - 03:00PM</td>
<td>3814278 - Sustainability and quality: Hydrothermal injection synthesis of magnetic nanomaterials for medicine</td>
<td>Annie Regan, Professor Nguyen TK Thanh, FRSC FinstP FIMMM FRSB Professor Peter Dunne</td>
<td>Room 236</td>
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<tr>
<td>02:45PM - 03:05PM</td>
<td>3808449 - (Co-)Electrocatalytic molecular systems for the reduction of carbon dioxide</td>
<td>Charles Machan, Shelby Hooe, Juan Moreno, Amelia G Reid: Graduate Student, Connor Koellner, Megan Moberg</td>
<td>Room 206</td>
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<td>02:45PM - 03:30PM</td>
<td>3826740 - X-ray absorption spectroscopy</td>
<td>Josh Vura-Weis</td>
<td>Room 210</td>
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<td>02:50PM - 03:15PM</td>
<td>3821017 - Investigating the copper-dependent behavior of proinsulin C-peptide</td>
<td>Marie Heffern</td>
<td>Room 209</td>
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<td>03:00PM - 03:30PM</td>
<td>3833454</td>
<td>Preventing adhesion of bacteria on medical grade polymers using hydrophilic zwitterionic polymer coatings</td>
<td>Richard Kaner, Brian McVerry, Ethan Rao, Na He</td>
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<td>03:00PM - 03:20PM</td>
<td>3825586</td>
<td>Vanadium alkylidene catalysts for olefin metathesis</td>
<td>Samuel Fosu, Emma Saucerman, Wesley Farrell, Bess Vlaisavljevich</td>
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<td>03:00PM - 03:20PM</td>
<td>3828204</td>
<td>Bi3+-doped phosphate phosphor with broadband NIR emission</td>
<td>hexi zhang, Yuanbing Mao</td>
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<td>03:00PM - 03:20PM</td>
<td>3816284</td>
<td>Metal-mediated, autolytic amide bond cleavage: An emerging strategy to synthesize and activate metallodrugs</td>
<td>Dariusz Smilowicz, Shawn Eisenberg, Rochelle LaForest, Dr. Eszter Boros Assistant Professor</td>
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<td>03:00PM - 03:20PM</td>
<td>3828547</td>
<td>Withdrawn</td>
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<td>03:00PM - 03:20PM</td>
<td>3816808</td>
<td>Synthesis and characterization of quaternary lead chalcohalide nanocrystals</td>
<td>Alison Roth, Jemima Larney, Eunbyeol Gi PhD Candidate, Silvia Mena, Gonzalo Guirado, Richard Schaller, Emily Smith, Javier Vela</td>
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<td>03:00PM - 03:40PM</td>
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<td>- Electrochemistry: Room: Virtual Session</td>
<td>Amy Marschilok, Abbas Vali</td>
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<td>03:00PM - 03:20PM</td>
<td>3806753</td>
<td>Epitaxial electrodeposition of wide bandgap semiconductors</td>
<td>Bin Luo, Avishek Banik, Eric Bohannan, Jay Switzer</td>
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<td>03:05PM - 03:25PM</td>
<td>3813922</td>
<td>Ethylene dimerization and oligomerization using bis(phosphino)boryl supported Ni complexes as homogeneous catalysts</td>
<td>T Brent Gunnoe, Amor Rodriguez, Fanji Kong, Pablo Rios, Conner Hauck, Diane Dickie, Laurel Habgood</td>
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<td>03:15PM - 03:40PM</td>
<td>3822516</td>
<td>Unusual mechanisms and outcomes in reactions of dioxygen-activating nonheme iron enzymes</td>
<td>Joseph Bollinger, Carsten Krebs, Anie Boal, Alexey Silakov</td>
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<td>03:20PM - 03:40PM</td>
<td>3827209 - Electronic structure contributions to the ground- and excited-state reactivity of nickel cross-coupling catalysts</td>
<td>Room 212</td>
<td>Ryan Hadt</td>
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<td>03:20PM - 03:40PM</td>
<td>3825338 - Anti-thermal quenching luminescence of Sc2Mo3O12:Eu3+ induced by energy transfer and negative thermal expansion properties</td>
<td>Room 237</td>
<td>Forough Jahanbazi</td>
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<td>03:20PM - 03:40PM</td>
<td>- Intermission</td>
<td>Sagamore Ballroom 3</td>
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<td>03:20PM - 03:40PM</td>
<td>3828687 - Inkjet printed gold nanoparticle inks for electrochemical sensors</td>
<td>Room 208</td>
<td>Md Tawabur Rahman, Jessica Bone, Thomas Roussel, Judith Jenkins, Aron Huckaba</td>
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<td>03:20PM - 03:40PM</td>
<td>- Intermission</td>
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<td>03:20PM - 03:40PM</td>
<td>3827807 - Ground and excited state redox potentials and electrochemical behavior of [Ru(phen)2((IP-nT))2+ complexes as a function of thiophene chain length</td>
<td>Virtual Session</td>
<td>Abbas Vai, Houston Cole Graduate Student, Wesley McDonald, Dr. Elamparuthi Ramasamy, Ph.D. Research Scientist, Alisher Talgatov, Colin Cameron, Sherri McFarland Professor</td>
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<tr>
<td>03:25PM - 03:45PM</td>
<td>3814379 - FLPs and Haber-Bosch chemistry</td>
<td>Room 206</td>
<td>Douglas Stephan</td>
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<tr>
<td>03:30PM - 04:00PM</td>
<td>- Intermission</td>
<td>Room 238</td>
<td></td>
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<tr>
<td>03:30PM - 04:15PM</td>
<td>3828472 - Physical inorganic tutorial: Crystallography</td>
<td>Room 210</td>
<td>Michael Shatruk</td>
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<tr>
<td>03:40PM - 03:55PM</td>
<td>- Intermission</td>
<td>Room 209</td>
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<td>03:40PM - 04:00PM</td>
<td>3820309 - Mechanism of tungsten-catalyzed cyclic polyacetylenes synthesis</td>
<td>Room 212</td>
<td>Alec Esper, Alvaro Montoya, Alexander Angerhofer, Christian Ehms, Adam Veige</td>
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<tr>
<td>03:40PM - 03:55PM</td>
<td>- Intermission</td>
<td>Room 237</td>
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<td>03:40PM - 04:00PM</td>
<td>3813741 - Stability in the precarious field of cancer theranostics</td>
<td>Sagamore Ballroom 3</td>
<td>Daniel Thorek</td>
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<tr>
<td>Time</td>
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<td>03:40PM - 04:00PM</td>
<td>3828629</td>
<td>Computational and experimental design of quinones for electrochemical CO2 capture and concentration</td>
<td>Room 208</td>
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<td>03:40PM - 04:00PM</td>
<td>3818488</td>
<td>Visible-light responsive arylazopyrazole-tagged phenylalanine based metallogels</td>
<td>Room 236</td>
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<td>03:45PM - 04:05PM</td>
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<td>Intermission</td>
<td>Room 206</td>
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<td>03:55PM - 04:20PM</td>
<td>3814781</td>
<td>Elucidating metal sequestration by calprotectin</td>
<td>Room 209</td>
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<tr>
<td>03:55PM - 04:15PM</td>
<td>3828866</td>
<td>Tetranuclear Cu(I) clusters with tunable emissions based on remote steric control</td>
<td>Room 237</td>
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<tr>
<td>04:00PM - 04:30PM</td>
<td>3811767</td>
<td>Solar energy conversion and optoelectronics enabled by the halide perovskites</td>
<td>Room 238</td>
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<td>04:00PM - 04:20PM</td>
<td>3823637</td>
<td>Mechanistic insights into difficult palladium catalyzed trifloration of aryl groups</td>
<td>Room 212</td>
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<tr>
<td>04:00PM - 04:20PM</td>
<td>3822454</td>
<td>Photoluminescence of high- and mid-valent alkoxide complexes of uranium</td>
<td>Sagamore Ballroom 3</td>
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<tr>
<td>04:00PM - 04:20PM</td>
<td>3828975</td>
<td>Two-electron transition metal based redox mediator for dye-sensitized solar cells</td>
<td>Room 208</td>
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<tr>
<td>04:00PM - 04:20PM</td>
<td>3817787</td>
<td>Speciation of metal-carboxylate precursors under nanocrystal synthesis conditions</td>
<td>Room 236</td>
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<tr>
<td>04:05PM - 04:25PM</td>
<td>3815539</td>
<td>Monobridged A2H2 structures: A micro-chapter in the history of main group inorganic chemistry</td>
<td>Room 206</td>
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<td>04:15PM - 04:35PM</td>
<td>3820509</td>
<td>Development of defect related NIR emitting phosphors for in vivo bioimaging applications</td>
<td>Room 237</td>
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<td>04:15PM - 05:00PM</td>
<td>3817243</td>
<td>Cyclic voltammetry basics for the inorganic chemist</td>
<td>Room 210</td>
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<td>04:20PM - 04:45PM</td>
<td>3822977</td>
<td>Engineered artificial metalloproteins</td>
<td>Room 209</td>
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<td>04:20PM - 04:40PM</td>
<td>3815555</td>
<td>Chelation of heavy s-, p-, and f-block metal ions: Fundamental studies and applications</td>
<td>Room 236</td>
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<td>04:20PM - 04:40PM</td>
<td>3819456</td>
<td>Colloidal synthesis, energy gap tuning, and carrier dynamics of Ge-Si-Sn nanoalloys with visible to near IR photoluminescence</td>
<td>Room 236</td>
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<td>04:25PM - 04:45PM</td>
<td>3817018</td>
<td>Alkali metal heavyweights: Potential big hitters in homogeneous catalysis</td>
<td>Room 206</td>
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<td>04:30PM - 05:00PM</td>
<td>3833436</td>
<td>Enhanced optical response by atomic metal-semiconductor interfaces</td>
<td>Room 238</td>
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<td>04:35PM - 04:55PM</td>
<td>3821308</td>
<td>Energy landscape of LixLa2/3–x/3TiO3 (LLTO) synthesis explored via various precursors</td>
<td>Room 237</td>
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<td>04:45PM - 05:10PM</td>
<td>3825204</td>
<td>Electron paramagnetic resonance (EPR) for elucidation of the mechanism of water oxidation catalysts</td>
<td>Room 209</td>
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<td>04:45PM - 05:05PM</td>
<td>3823262</td>
<td>Synthesis and chemistry of transition metal complexes containing heavier main group atoms</td>
<td>Room 206</td>
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<td>04:50PM - 05:15PM</td>
<td>3801356</td>
<td>Ordered mesoporous carbon@TiO2 composite with direct interface as an efficient photocatalyst</td>
<td>Room 237</td>
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<td>05:00PM - 05:30PM</td>
<td>3810694</td>
<td>Semiconductors and metals at the atomic limit</td>
<td>Room 238</td>
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<td>05:05PM - 05:25PM</td>
<td>3815509</td>
<td>Redox non-innocent cyclopentadienyl ligands as electron reservoirs for sandwich complexes</td>
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<tr>
<td>Time</td>
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<td>Room</td>
<td>Speakers</td>
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| 05:10PM - 05:35PM | 3816002 - Structure-function studies of the O2-evolving complex in photosystem II from Synechocystis sp. PCC 6803 | Room 209 | Gary Brudvig  
David Flesher  
Christopher Gisriel  
Jimin Wang  
Richard Debus |
| 05:15PM - 05:35PM | 3820716 - Hybrid bronzes                                                      | Room 237 | Wedage Dayaratne  
Raul Torres-Cadena  
Bennett Schmitt  
Suchen Wan  
Nicole Musielak  
Emma Westrick  
Dr. Adam Jaffe Assistant Professor |
| 05:25PM - 05:45PM | 3808463 - Exploring the photochemistry of diamidocarbenes toward alkanes, silanes, and heteroarenes | Room 206 | Todd Hudnall  
Tharushi Perera  
Liam Taylor |
| 05:35PM - 06:00PM | 3819474 - Proton transfer network at the subunit interface of ribonucleotide reductase supports radical transport | Room 209 | Chang Cui  
David Song  
JoAnne Stubbe  
Professor Daniel G Nocera  
Patterson Rockwood Professor of Energy |