Monday, October 9, 2017

Posters should be set up in Scheman Stage Door by 9:30 am. They should be left on display through noon on Tuesday so that participants may view them not only during the poster session, but throughout the meeting as breaks in the program allow.

7:00 am Shuttles from the Gateway Hotel begin; run continuously until 8:30 am

7:15 am Registration/Check-in and Breakfast

8:00 am Welcome and Opening Remarks (Brent Shanks)

8:20 am Research Updates – Session 1

8:20 Novel Biocatalytic Organizations Facilitating Efficiency in Iterative Metabolic Networks (Basil Nikolau)
8:40 Acyl Carrier Protein-Mediated Interactions in Type II Fatty Acid Biosynthesis (Joe Noel)
9:00 Reiterative Pathways – Polyketides and Polyisoprenes (Eran Pichersky)
9:20 The Genetic Basis for Obese Yeast: From Forward Genetic Screens to Genome Analysis of Fatty Acid-Overproducing (fao) Mutants (Marna Yandeau-Nelson)

9:40 am Break

10:10 am Research Updates – Session 2

10:10 Selective Catalytic Oxidation of Alcohols and Hydrogenolysis of Carboxylic Acids (Bob Davis)
10:30 Mechanistic Insights and Solvent Effects in Acid and Metal Catalyzed Transformation of Oxygenates (Matt Neurock)

10:50 am “Perfect Pitch” Competition (Student and Postdoc Presentations)

11:45 am Lunch

12:45 pm Research Updates – Session 3

12:45 Engineering Robust Yeast Strains for Polyketide and Fatty Acid Synthesis (Nancy Da Silva)
1:05 Strain Engineering for Product Tolerance (Laura Jarboe)
1:25 Exploring the Combinatorial Space of Complete Pathways to Chemicals (Costas Maranas)
1:45 Expanding the Genetic Space of β-reduction Enzymes to Diversify Product Synthesis from a β-oxidation Reversal (James Clomburg)
2:05 Three Essential Characteristics of Successful Biocatalysts (Rob Anex)

2:25 pm Break

2:55 pm Research Updates – Session 4

2:55 Design of Hydrothermally Stable Catalysts for Biorenewable Conversions (Abhaya Datye)
3:15 NMR Characterization of Catalyst Materials and Catalyst Poisons (Klaus Schmidt-Rohr)
3:35 Developing the Coumalic Acid/Coumalate Platform (Brent Shanks)

4:00 pm Poster Session / Reception

4:30 pm Shuttles to the Gateway Hotel begin; run continuously until 5:30 pm

6:00 pm Celebration Dinner (for all meeting participants)

6:00 Reception / Hosted Bar
6:30 Dinner
7:15 Program (Director’s remarks; Perfect Pitch awards)
**Tuesday, October 10, 2017**

*Posters should be left on display in Scheman Stage Door until noon so that participants may view them throughout the morning as breaks in the program allow. They may be removed during the lunch hour. Any left on display after that will be removed and discarded by event staff.*

**7:30 am**  Shuttles from the Gateway Hotel begin; run continuously until 9:00 am

**7:45 am**  Breakfast  
0167-0179 Scheman

**8:30 am**  Research Updates – Session 5  
Benton Auditorium, Scheman

- **8:30**  Pyrones – Summary and Future Plans (George Kraus)
- **8:50**  Bioprivileged Molecules from the Shikimate Biosynthesis and Its Downstream Pathways (Zengyi Shao)
- **9:10**  Designing a Framework for the Identification of Bioprivileged Molecules (J.-P. Tessonnier)
- **9:30**  Computational Framework for the Identification of Bioprivileged Molecules (Linda Broadbelt)

**9:50 am**  Break  
1st Floor Lobby, Scheman

**10:20 am**  General Discussion: Bioprivileged Molecules  
Benton Auditorium, Scheman

- **10:20**  Background – Funding and Future Opportunities (Brent Shanks and Peter Keeling)
- **10:50**  Discussion – The focus of this open discussion session will be on novel molecules from biorenewables, aka bioprivileged molecules.

**11:50 am**  Lunch (express deli) / Poster Teardown  
0175-0179 Scheman

For all but industry members and invited guests from non-member companies, the annual meeting will officially adjourn after lunch – except for students and postdocs, who are strongly encouraged to attend the Disability Awareness & Inclusiveness Panel and closing social activity that the SLC has planned. For those needing rides to the airport, please see your individual return-shuttle confirmations for specific pick-up times. Airport shuttles will load at Scheman and head directly to the airport, i.e., they will not stop at the hotel first. Please be sure to have all bags and personal belongings with you accordingly.

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**FOR STUDENTS AND POSTDOCS**

- **1:00 pm**  Panel: “STEM – Disabilities and Inclusion”  
3306 Elings Hall, ISU Campus

- **2:30 pm**  Adjourn

- **3:00 pm**  Bowling and Pizza (rides to be arranged)  
Perfect Games, West Ames

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**FOR INDUSTRY MEMBERS AND INVITED GUESTS***

- **1:00 pm**  CBiRC Direction: Industry Perspectives  
0004 Scheman

  The focus of this discussion-based breakout session will be on what’s next for the center, what makes sense from an industry perspective, i.e., what opportunities lie ahead and how CBiRC will position itself to succeed.

- **4:00 pm**  Adjourn

- **5:00 pm**  Optional Dinner  
The Iowa Stater Restaurant, Gateway Hotel

*From non-member companies.*