

Cell-Free Synthetic Biology Listening Day Agenda

U.S. Department of Energy, Bioenergy Technologies Office (BETO)

Sunday, July 30, 2017

Brown Palace Hotel

Denver, Colorado

Objective: During this listening day, subject matter experts will provide BETO with stakeholder input on challenges and opportunities related to cell-free biocatalysis and cell-free synthetic biology. Following presentations from the four speakers on relevant focus areas, participants will break into two breakout sessions to explore the role of cell-free synthetic biology for the production of biofuels and bioproducts.

<i>Time</i>	<i>Agenda Item</i>	<i>Speaker</i>
8:00 a.m. – 8:30 a.m.	Coffee and Registration	
8:30 a.m. – 8:45 a.m.	Introductory Remarks	David Babson, BETO
Cell-Free Synthetic Biology as an Enabling Tool for the Bioeconomy		
8:45 a.m. – 9:10 a.m.	<i>Purified Cell-Free Systems as a Biofuels and Biochemicals Production Platform</i>	Joe Rollin, National Renewable Energy Laboratory
9:10 a.m. – 9:35 a.m.	<i>Cell-Free Systems for Prototyping and Biodiscovery</i>	Zachary Sun, Synvitrobio, Inc.
Cell-Free Synthetic Biology as a New Conversion Platform for the Bioeconomy		
9:35 a.m. – 10:00 a.m.	<i>Synthetic Biochemistry: Making Biofuels and Commodity Chemicals the Cell-Free Way</i>	James Bowie, University of California, Los Angeles
10:00 a.m. – 10:25 a.m.	<i>Bioprocess Intensification at the Intersection of Biology and Advanced Manufacturing</i>	Sarah Baker, Lawrence Livermore National Laboratory
10:25 a.m. – 10:30 a.m.	Debrief and Breakout Instructions	
10:30 a.m. – 10:50 a.m.	Break	
10:50 a.m. – 12:20 p.m.	<u>Breakout Session Part 1</u>	
	A. Cell-Free Synthetic Biology as an Enabling Tool for the Bioeconomy B. Cell-Free Synthetic Biology as a New Conversion Platform for the Bioeconomy	
12:20 p.m. – 1:20 p.m.	Lunch	
1:20 p.m. – 2:40 p.m.	<u>Breakout Session Part 2</u>	
	A. Cell-Free Synthetic Biology as an Enabling Tool for the Bioeconomy B. Cell-Free Synthetic Biology as a New Conversion Platform for the Bioeconomy	
2:40 p.m. – 3:00 p.m.	Report-Out from Breakout A	
3:00 p.m. – 3:20 p.m.	Report-Out from Breakout B	
3:20 p.m. – 3:30 p.m.	Closing Remarks	David Babson, BETO