

Process Integration and Carbon Efficiency Workshop Agenda

June 11–12, 2014

Sheraton Denver West Hotel

Lakewood, Colorado

Day 1: June 11, 2014

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| 8:30 a.m. | Welcome—Leslie Pezzullo, Conversion Technology Manager |
| 8:35 a.m. | Introduction to Bioenergy Technologies Office (BETO) and the Billion-Ton Bioeconomy Concept—Jonathan Male, BETO Director |
| 9:00 a.m. | Conversion Program Strategic Goals—Kevin Craig, Conversion Program Manager |
| 9:20 a.m. | Scaling Up Research and Development (R&D) Breakthroughs and Lessons Learned from Demonstration and Deployment (D&D) Activities—Jim Spaeth, D&D Program Manager |
| 9:35 a.m. | Overview of Workshop and Process |
| 9:45 a.m. | Coffee Break |
| 10:00 a.m. | Breakout Session 1 <ul style="list-style-type: none">Challenges and barriers to efficient biological conversion of lignocellulosic feedstocks, including enzymatic hydrolysis and biological upgrading of intermediates. |
| 12:00 p.m. | Lunch |
| 1:30 p.m. | Recent R&D Success 1 |
| 1:50 p.m. | Recent R&D Success 2 |
| 2:10 p.m. | Coffee Break |
| 2:30 p.m. | Breakout Session 2 <ul style="list-style-type: none">Challenges and barriers to efficient chemical conversion of lignocellulosic feedstocks, including chemical pretreatments and catalytic upgrading of intermediates. |
| 4:30 p.m. | Report out from Breakout Sessions |
| 5:00 p.m. | Day 1 Conclusion |

Day 2: June 12, 2014

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| 8:45 a.m. | Review of Workshop and Process |
| 9:00 a.m. | Breakout Session 3 <ul style="list-style-type: none">Challenges and barriers to efficient integration of unit operations, including novel separations technologies and feedstock preprocessing and handling. |
| 11:00 a.m. | Coffee Break |
| 11:15 a.m. | Breakout Session 4 <ul style="list-style-type: none">Challenges and barriers not addressed by in previous sessions. |
| 12:15 p.m. | Report out from Breakout Sessions and Wrap-up |
| 1:00 p.m. | Day 2 Conclusion |