

Biomass to Biofuels Workshop
December 7, 8 (9), 2005 Doubletree Hotel, Rockville MD

Brief agenda—December 2, 2005

December 7

- 8:00 Welcome / Joint Program Goals(Ari Patrinos/ Richard Moorer)
- 8:15 Workshop Objectives, Agenda, Output (John Ferrell / John Houghton)
- 8:35 Industry Perspective on Bioethanol—The role of biofuels in transforming our energy future (Justin Adams, BP)
- 8:45 Industry “Technology Pull”
 - Title TBD (Doug Cameron, Cargill)
 - Enzymatic Biomass Conversion, and the Challenges Ahead (Bill Dean, Danisco Genencor)
- 9:45 Break
- 10:00- New Science from Systems Biology
 - Realizing the Billion Ton Vision (Chris Somerville, Stanford/Carnegie)
 - GTL Crosscutting Science Applied to Biomass (Jim Fredrickson, Pacific Northwest National Laboratory)
 - Genome-Scale Cellular Models (Christophe Schilling, Genomatica)
 - Engineering industrial biocatalysts by Metabolic Engineering (Greg Stephanopoulos, MIT)
- 12:00 Working Group Objectives and Workshop Process
(Mike Himmel, National Renewable Energy Laboratory / Mike Knotek)
- 12:30 Participants pick up box lunches and join their assigned technical working groups to frame topical areas, create list of barrier technologies (BTRPs) and transformational challenges (TCs)
 - Working Group 1: Feedstock Genomics & Engineering
 - Working Group 2: Plant Cell Wall Deconstruction
 - Working Group 3: Biological Conversion of Biomass
- 3:30 break
- 4:00 Resume refining lists of BTRPs and TCs
- 6:30 Working dinner
- 9:30 adjourn

December 8

- 8:30 Group writing and discussions of BTRPs and TCs
- 12:00 Working lunch
- 1:00 Plenary Outbriefs and Discussion
- 3:00 Main meeting adjourns

Writing teams stay to write report sections

Detailed Agenda---General Process Flow for Breakout Groups

Day 1 Wednesday, Dec. 7		
Time Slot	Activity	Product
1:30 – 2:30	Framing of Topical Area – presentations and discussions	Consensus Systems Definition of Problem Area –System Diagram
2:30 – 4:00	Creating the prospective list of 1) Barrier Technologies and 2) Transformational Challenges research areas (TCs)	Prospective List of Items End-to-End systems analysis – definition of critical path biology items
4:00 – 6:00	Culling the list and identifying research requirements	Consensus List of Items and fill out BTRP or TC form ~5:00 PM: Each WG provides topic list (electronic) for printing & intergroup comparison over dinner
6:00 – 7:30 All groups together for dinner	Discuss BTRPs and TCs that transcend groups	Assign transcending BTRPs and TCs to specific groups
Evening	Continue Defining Research requirements and Outlining thoughts for writeups Crosscutting group meets for discussions	Consensus items and research areas with prioritization Beginning of definition of crosscutting portfolio
Day 2 Thursday, Dec. 8		
8:30 – 12:00	Group writing of BTRPs Group Chairs Audit Process, Discussions as needed	Draft BTRPs and TCs
12:00-1:00	Lunch.	All files (including presentations) provided electronically to ORISE staff for printing
1:00 – 3:00	Plenary Outbriefs and Discussions	Presentations and Comments
3:00 Workshop adjourns for all except WG4 and chairs/writers from WG1-3 continue working		ORISE staff to provide copies of all draft files—organized by WG—to participants. Participants can load files on thumb drives
3:30-6:00 Remaining WG participants meet.	WG4 Discussions to coalesce common cross-cutting capabilities, confirm with other groups as needed, assess gaps, and make writing assignments. WGs 1-3 ID gaps, make assignments, finalize texts, etc.	Consensus output targets and refined outlines

6:00-7:00 Dinner together	Chairs and cochairs dine together	Identification of issues and problems
Evening	Work and discuss as appropriate – individual work time	Refined work products
	Day 3 Friday, Dec. 9	
8:30-11:00	Working groups continue writing	Second drafts for comparison
11:00-12:00	Groups convene together in plenary – ad hoc presentations for intercomparison and sanity check	Strategy adjustments, new assignments.
12:00-1:00 Lunch		
1:00-3:00	Groups convene separately to work on assignments.	Groups share electronic and hard copy files with ORISE assistance.
3:00 Workshop adjourns for all		Agree to additional items needed; followup process and assignment schedule. All final files will be e-mailed to all participants and put on website