



IAB Meeting Tentative Agenda

(as of 9-2-09)

When: September 9-11, 2009

Where: Rushmore Plaza Holiday Inn

Wednesday, Sept 9 (Hammons Room)

4 – 6 pm registration

5 – 7 pm reception, hor d'oeuvres, and cash bar

Thursday, Sept 10 (Salons F-H except lunch and banquet)

7:15 – 8:00 am continental breakfast

7:30 – 11 am registration

8:00 – 8:05 am Opening Remarks and Welcome from SDSMT

8:05 – 8:15 am NSF Remarks

8:15 – 8:45 am CBERD Overview (Abata), Collateral Initiatives (Rezac, Mahajan), LIFE Forms (Gray)

Focus Area 2: Feedstock Breeding and Genomics

8:45 – 9:10 am **The Role of Sorghum in the Production of Biofuels;**
Scott Staggenborg

Focus Area 3: Bioprocessing Microbes and Enzymes

9:10 – 9:35 am **Development of a Thermostable Enzyme Cocktail for Rapid Release of Fermentable Sugars from Lignocellulosic Materials;** Rajesh Sani, Sookie Bang, Lew Christopher, and David Dixon

9:35 – 10:00 am **Development of an Industrial Yeast Strain Expressing Lignocellulolytic Enzymes in Conversion of Biomass to Ethanol;** Sookie Bang

10:00 – 10:15 am Break (coffee, cookies)

Focus Area 4: Biomass Processing

10:15 – 10:40 am **Catalytic Subcritical Hydrolysis of Waste Biomass and Selective Enrichment of Hydrocarbon Fuels;** Rajesh Shende, Ken Benjamin

10:40 – 11:05 am **Investigation of Lignocellulose Derived Lignin Co-product as a Matrix and/or Reinforcement for Biocomposites;** Robb Winter

11:05 – 11:30 am **Development of Novel Oxidative Pretreatment Technologies for Lignocellulosic Ethanol Production;** Ratna Sharma-Shivappa, Praveen Kolar, Thomas Ranney, Steven Peretti

11:30 – 11:55 am **Membrane Separations to Enable a More Profitable Biofuels Industry;** Peter H. Pfromm

11:55 – 1:00 pm Buffet Lunch - Hammons room (deli sandwiches)

1:00 – 1:45 pm Poster Session (14 posters)

Focus Area 5: New Platform Technologies

1:45 – 2:10 pm **Biogas Upgrading Using Membranes Templated with Supercritical (Sc) CO₂;** Tadanori Koga, Devinder Mahajan

2:10 – 2:35 pm **Ultra-Deep Sulfur Removal from Biomass-Derived Fuels;** Devinder Mahajan, Benjamin Chu

2:35 – 3:00 pm **Development of Anaerobic Systems for Biofuel Production from Gas Streams Using Latex-Film-Immobilized Microbes;** Amy Grunden, Mari Chinn, Michael Flickinger, Steven Peretti, Kelly Zering

3:00 - 3:25 pm **Highly Efficient Catalytic Synthesis of Biomethanol,** Devinder Mahajan, and M. Anjom

3:25 – 3:40 pm Break (soft drinks, water, brownies)

Focus Area 6: Modeling and Process Lifecycle Analysis

- 3:40 – 4:05 pm **Life Cycle Analysis of Dedicated Biomass Production Systems;** Scott Turn, Hawaii Natural Energy Institute
- 4:05 – 4:30 pm **Life Cycle Analysis of Biofuels Production;** Richard A Venditti, Daniel Saloni, Stephen S. Kelley
- 4:30 – 4:55 pm **Impurity-Specific Water Purification Technology and its Implication in Biofuel Distribution Systems,** CR Krishna, N. Htun and D. Mahajan
- 5:00 – 5:15 pm Closing Remarks and Short Break
- 5:15 – 5:45 pm Transportation to Hill City (Vans will leave at 5:20 pm sharp)
- 5:45 – 7:15 pm Banquet at Prairie Berry Wineries, Hill City
- 7:15 – 7:45 pm Transportation to Keystone
- 7:45 – 9:00 pm Tour of Mt. Rushmore National Monument, Keystone
- 9:00 – 9:30 pm Transportation return to Rushmore Holiday Inn, Rapid City

Friday, Sept 11 (Salons F-H)

- 7:30 – 8:30 am Working Breakfast for Site Directors and NSF Representatives only (representatives from potential universities are invited to attend the first topic item of this meeting)
Recruiting additional university sites
Diversifying research portfolio across each campus
Increasing the number of IAB members
Increasing project funding (NSF, non-NSF)
Improving visibility within host States
Developing and establishing CBERD's credibility
- 8:00 – 8:30 am Continental Breakfast
- 8:30 - 9:30 am LIFE Form Discussion
- 9:30 – 10:00 am Discussion of Future Research Directions
- 10:00 – 10:30 am Break and Check Out (coffee, snack bars)

10:30 – 12:00 pm IAB Business Meeting (Bill McDonald, IAB Chair)
Discussion and adoption of CBERD Bylaws
Discussion of Grant/Contract Opportunities
Increasing the number of IAB members
Curriculum suggestions
Other

12:00 pm Meeting Adjournment and Box Lunch

Tours of the SDSMT campus will be scheduled on an ad hoc basis for those interested in remaining for Friday afternoon.