



Office of the Biomass Program

Peer Review

November 14 – 16, 2005

Hyatt Arlington, Virginia

Day One – Monday November 14, 2005

Session 1 – Biomass Program Overview

8:30 am – 2:50 pm

To demonstrate how the Program plans, measures and manages program activities and assesses progress in achieving programmatic goals.

Session 1A – Welcome and Program Approach

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|----------------------------|--------------------------------|--|
| 8:30 am – 8:35 am | Welcome | <i>Douglas Kaempf (OBP)</i> |
| 8:35 am – 9:15 am | “A Look Back” Program Overview | <i>Douglas Kaempf (OBP)</i> |
| 9:15 am – 9:55 am | Strategic Approach | <i>Cindy Riley (NREL) and Larry Russo (OBP)</i> |
| 9:55 am – 10:10 am | Program Approach Q&A | <i>Doug (John Ferrell, Cindy Riley, Larry Russo)</i> |
| 10:10 am – 10:25 am | Break | |

Session 1B – Pathway Details

| | | |
|----------------------------|---------------------------|--|
| 10:25 am – 10:55 am | Current Focus on Pathways | <i>Larry Russo and John Ferrell (OBP)</i> |
| 10:55 am – 11:10 am | “Other” Pathways | <i>Larry Russo (OBP) and/or Cindy Riley (NREL)</i> |
| 11:10 am – 11:25 am | Pathway Q&A | <i>John Ferrell (OBP)</i> |
| 11:25 am – 12:30 pm | Lunch | |

Session 1C – Program Planning, Analysis and Decision Making

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|--------------------|---|---|
| 12:30 pm – 1:00 pm | Systems Integration (SI - The tool for planning and decision support) | <i>Cindy Riley (NREL- Systems Integration Office)</i> |
| 1:00 pm – 1:20 pm | Analysis | <i>Neil Rossmeissl (OBP)</i> |
| 1:20 pm – 1:35 pm | Project Management Center (PMC - Making it happen) | <i>Jim Spaeth (Golden Field Office)</i> |
| 1:35 pm – 1:55 pm | Program Planning, Analysis and Decision Making Summary | <i>Larry Russo (OBP)</i> |
| 1:55 pm – 2:10 pm | Program Planning, Analysis and Decision Making Q&A | <i>John Ferrell (OBP), Larry, Cindy, Neil, Jim</i> |
| 2:10 pm – 2:30 pm | Additional Programmatic and Management Q&A and for reviewers | |
| 2:30 pm – 2:45 pm | Break | |
| 2:45 pm – 2:50 pm | Introduction to Core Technology R&D Platforms | <i>John Ferrell (OBP)</i> |



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Session 2 – Biomass Feedstock Interface

2:50 pm – 4:05 pm

To demonstrate how the work being conducted by the Feedstocks Platform fits within the parameters of the Program and helps achieve Program goals.

Session 2 – Biomass Feedstock Interface

| | | |
|-------------------|---|---------------------------------|
| 2:50 pm – 3:05 pm | Feedstocks Platform Overview | <i>Sam Tagore (OBP)</i> |
| 3:05 pm – 3:15 pm | Feedstocks Analysis Overview | <i>Shahab Sokhansanj (ORNL)</i> |
| 3:15 pm – 3:45 pm | *Summary of Feedstocks Interface Effort | <i>Richard Hess (INL)</i> |
| 3:45 pm – 4:05 pm | Feedstocks Q&A | <i>Sam Tagore (OBP)</i> |

Session 3 – Thermochemical Conversion

4:05 pm – 6:00 pm

To demonstrate how the work being conducted by the Thermochemical Platform fits within the parameters of the Program and helps achieve Program goals.

Session 3 – Thermochemical Conversion

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|-------------------|---|-----------------------------|
| 4:05 pm – 4:15 pm | Thermochemical Platform Overview | <i>Paul Grabowski (OBP)</i> |
| 4:15 pm – 4:30 pm | Thermochemical Analysis Overview | <i>Rich Bain (NREL)</i> |
| 4:30 pm – 4:50 pm | *Summary of Feed Processing & Handling Effort | <i>John Jechura (NREL)</i> |
| 4:50 pm – 5:20 pm | *Summary of Thermochemical Processing Effort | <i>Don Stevens (PNNL)</i> |
| 5:20 pm – 5:50 pm | *Summary of Clean-up and Conditioning Effort | <i>Dave Dayton (NREL)</i> |
| 5:50 pm – 6:00 pm | Thermochemical Q&A | <i>Paul Grabowski (OBP)</i> |

* Presentations denoted with an asterisk will cover multiple, previously reviewed projects addressing the specified barrier

Day Two – Tuesday November 15, 2005

Session 4 – Biochemical Conversion

8:30 am – 2:15 pm

To demonstrate how the work being conducted by the Biochemical Platform fits within the parameters of the Program and helps achieve Program goals.

| Session 4 – Biochemical Conversion | | |
|------------------------------------|--|---------------------|
| 8:30 am – 8:40 am | Biochemical Platform Overview | Amy Miranda (OBP) |
| 8:40 am – 8:55 am | Biochemical Analysis Overview | Kelly Ibsen (NREL) |
| 8:55 am – 9:30 am | *Summary of Targeted Conversion Effort | Mike Himmel (NREL) |
| 9:30 am – 10:05 am | *Summary of Pretreatment & Enzymatic Hydrolysis Effort | Rick Elander (NREL) |
| 10:05 am – 10:40 am | *Summary of Processing Integration Effort | Dan Schnell (NREL) |
| 10:40 am – 11:00 am | Biochemical Q&A | Amy Miranda (OBP) |
| 11:00 am – 12:00 pm | Poster Session | |
| 12:00 pm – 1:00 pm | Lunch | |
| 1:00 pm – 2:00 pm | Poster Session | |
| 2:00 pm – 2:15 pm | Introduction to Applied R&D Areas | Valerie Reed (OBP) |

Session 5 – Biobased Products

2:15 pm – 4:20 pm

To demonstrate how the work being conducted by the Products Platform fits within the parameters of the Program and helps achieve Program goals.

| Session 5 – Biobased Products | | |
|-------------------------------|--|--------------------|
| 2:15 pm – 2:25 pm | Products Platform Overview | Valerie Reed (OBP) |
| 2:25 pm – 2:40 pm | Products Analysis Overview | Joe Bozell (NREL) |
| 2:40 pm – 2:55 pm | Break | |
| 2:55 pm – 3:30 pm | *Summary of Chemicals and Materials Effort | Todd Werpy (PNNL) |
| 3:30 pm – 4:05 pm | *Summary of Fuels Effort | Tom Foust (NREL) |
| 4:05 pm – 4:20 pm | Products Q&A | Todd Werpy (PNNL) |
| 4:20 pm – 5:30 pm | Poster Session | |



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Day Three – Wednesday November 16, 2005

Session 6 – Integrated Biorefinery

8:30 am – 5:00 pm

To demonstrate how the work being conducted by the Integrated Biorefinery Platform fits within the parameters of the Program and helps achieve the Program goals.

Note: Each project presentation will consist of a 20-minute presentation followed by 10 minutes of Q&A and “quiet-time.”

| Session 6 – Integrated Biorefinery | | |
|------------------------------------|---|--|
| 8:30 am – 8:40 am | Integrated Biorefinery Overview | <i>Neil Rossmeissl (OBP)</i> |
| 8:40 am – 9:10 am | Integrated Biorefinery Analysis Task | <i>Bob Wallace (NREL)</i> |
| 9:10 am – 9:40 am | Integrated Corn-based Biorefinery Project | <i>Bill Provine (DuPont)</i> |
| 9:40 am – 10:10 am | Making Industrial Bio-Refining Happen! Project | <i>Bob Wooley (NatureWorks, LLC)</i> |
| 10:00 am – 10:30 am | Break | |
| 10:30 am – 11:00 am | Collection, Commercial Processing, and Utilization of Corn Stover Project | <i>David Glassner (NatureWorks, LLC)</i> |
| 11:00 am – 11:30 am | New Biorefinery Platform Intermediate Project | <i>Jim Millis (Cargill)</i> |
| 11:30 am – 12:00 pm | A Second Generation Dry Mill Project | <i>Steve Lewis (Broin)</i> |
| 12:00 pm – 1:20 pm | Lunch | |
| 1:20 pm – 1:50 pm | Advanced Biorefining of Distiller's Grain and Corn Stover Blends: Pre-Commercialization of a Biomass-Derived Process Technology Project | <i>Patrick Mulvihill (Abengoa)</i> |
| 1:50 pm – 2:20 pm | Separation of Corn Fiber and Conversion to Fuels and Chemicals: Phase II, Pilot-Scale Operation Project | <i>Nathan Fields (NCGA)</i> |
| 2:20 pm – 2:40 pm | Break | |
| 2:40 pm – 3:10 pm | Demonstration of BLG at Big Island Project | <i>Larry Rath (NETL - Representing Georgia Pacific)</i> |
| 3:10 pm – 3:40 pm | Southeast Alaska Ethanol Project | <i>Fran Ferraro (Merrick)</i> |
| 3:40 pm – 4:10 pm | City of Gridley Biofuels Project | <i>Dennis Schuetzle (TSS - Representing the City of Gridley)</i> |
| 4:10 pm – 4:30 pm | Integrated Biorefinery Q&A | <i>Neil Rossmeissl (OBP)</i> |

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Session 7 – Closing Remarks and Overview

5:00 pm – 5:30 pm

To conclude our review by allowing our Steering Committee Members provide their initial thoughts and comments about the Biomass Program, as well as, allow them to ask any final questions.

Session 7 – Closing Remarks and Overview

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|-------------------|---|--|
| 4:30 pm – 4:45 pm | Summary and Reassessment of Peer Review | <i>Steering Committee</i> |
| 4:45 pm – 4:55 pm | Q&A | <i>Larry Russo (OBP), John Ferrell (OBP), Cindy Riley (NREL), and Jim Spaeth (GFO)</i> |
| 4:55 pm – 5:00 pm | Closing | <i>Douglas Kaempf (OBP)</i> |