



**BETO Peer Review**

**3/26/2015**

**Valerie Reed**

**Deputy Director,**

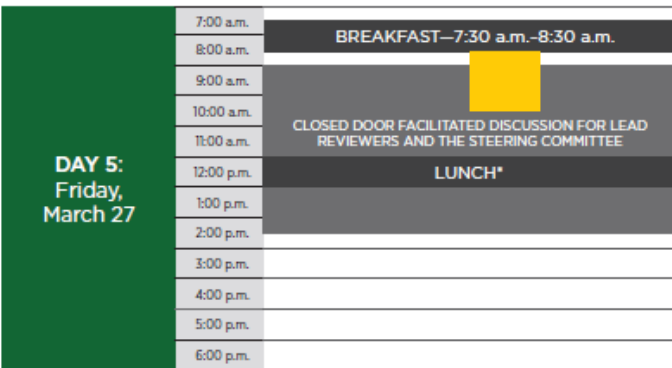
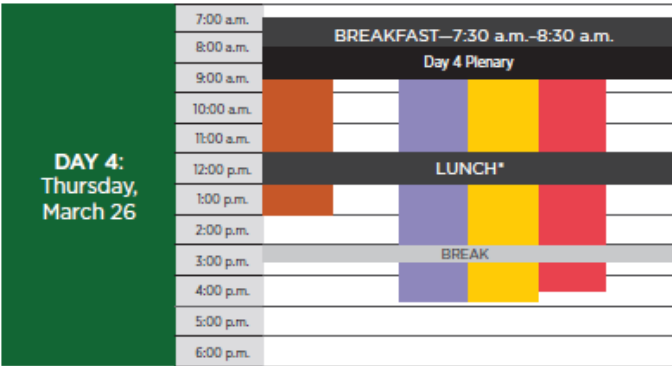
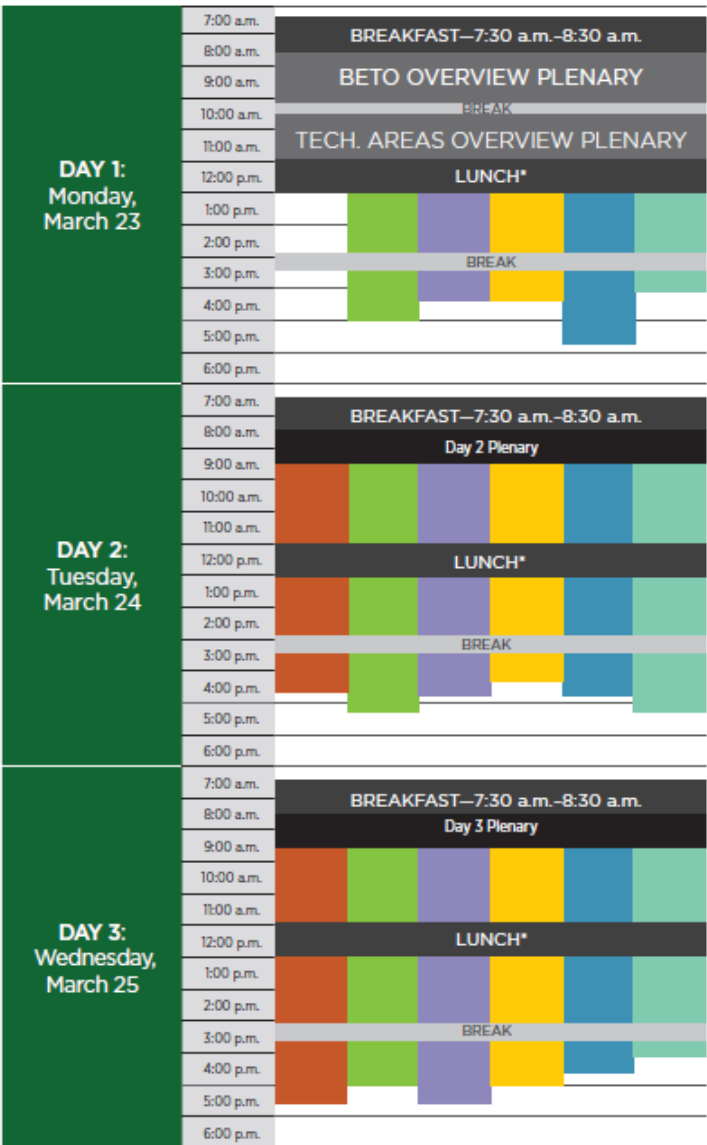
**Bioenergy Technologies Office**

# 2015 PROJECT PEER REVIEW



**March 23-27, 2015, Hilton Mark Center  
Alexandria, VA**

# Agenda at a Glance



- TERRESTRIAL FEEDSTOCKS  
Juniper Room
- ALGAL FEEDSTOCKS  
Aspen Room
- BIOCHEMICAL CONVERSION  
Arbors Room
- THERMOCHEMICAL CONVERSION  
Plaza II & III
- DEMONSTRATION AND MARKET TRANSFORMATION  
Plaza I
- SUSTAINABILITY AND STRATEGIC ANALYSIS  
Beech Room
- COOKSTOVES  
Plaza I

\*Lunch will be provided for reviewers and members of the Steering Committee each day.

# Plenary Sessions

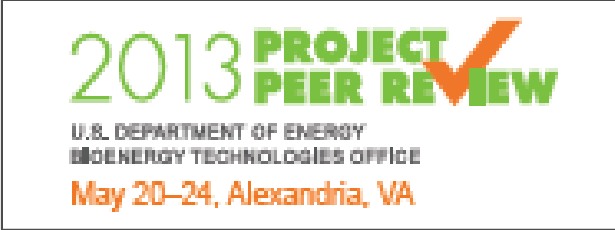
| Day 1: PLENARY SESSION SCHEDULE |   |                      |
|---------------------------------|---|----------------------|
| TIME                            | Technology Area                           | Presenter            |
| 8:30 a.m.–8:40 a.m.             | Introduction                              | Valerie Sarisky-Reed |
| 8:40 a.m.–9:10 a.m.             | BETO Overview                             | Jonathan Male        |
| 9:10 a.m.–9:35 a.m.             | Sustainability and Strategic Analysis     | Kristen Johnson      |
| 9:35 a.m.–10:00 a.m.            | Terrestrial Feedstocks                    | Alison Goss Eng      |
| 10:00 a.m.–10:15 a.m.           | BREAK                                     |                      |
| 10:15 a.m.–10:40 a.m.           | Algal Feedstocks                          | Alison Goss Eng      |
| 10:40 a.m.–11:20 a.m.           | Conversion—Biochemical and Thermochemical | Bryna Guriel         |
| 11:20 a.m.–11:45 a.m.           | Demonstration and Market Transformation   | Jim Spaeth           |

| Days 2-4: PLENARY SESSION SCHEDULE |                     |   |                                    |
|------------------------------------|---------------------|---|------------------------------------|
| DAY                                | TIME                | Title   | Presenter/Panel                    |
| Tuesday                            | 8:30 a.m.–9:30 a.m. | Aviation and Marine: Early Market Adopters  | Zia Haq                            |
| Wednesday                          | 8:30 a.m.–9:30 a.m. | Pathways to Hydrocarbon Biofuels: Update on the Office’s Techno-Economic Analysis Efforts | Alicia Lindauer and Jay Fitzgerald |
| Thursday                           | 8:30 a.m.–9:00 a.m. | Biomass Potential in the U.S.: A 2016 Update  | Alison Goss Eng and Bryce Stokes   |
| Thursday                           | 9:00 a.m.–9:30 a.m. | Collaborations with the Vehicle Technologies Office: Driving Biofuels End Use             | Kevin Stork                        |

# Peer Review Process

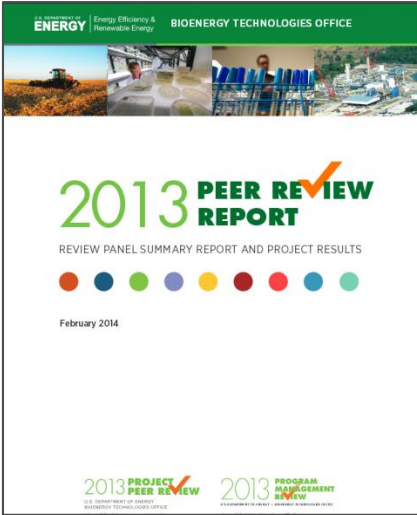
## Process

- Biennial Requirement of all EERE Programs
- 2013 Peer Review Process
  - BETO Project Peer Review – May 2013
  - Program Management Review – July 2013
  - Final Peer Review Report Published – February 2014



## Purpose

- Inform decision-making on the modification, expansion, or discontinue existing projects
- One evaluation tool within the Active Project Management (APM) process
- Gather and understand the recommendations of expert, external stakeholders.
- Conduct an overall portfolio assessment and evaluate the focus an strategic direction of the Office





# Levels of Review and Evaluation

## Project-level

- Project Overview
- Approach
- Accomplishments
- Project Relevance
- Future Work

## Program-level

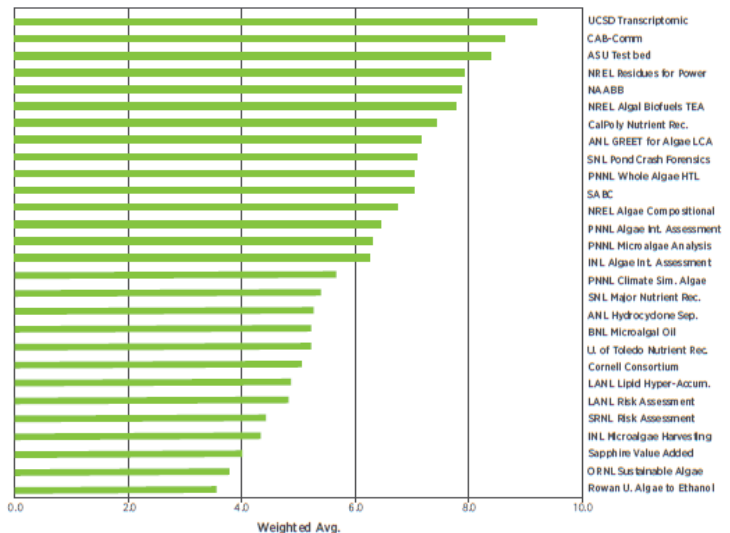
- Impact
- Relevance
- Innovation
- Gaps
- Synergies
- Overall Recommendations

## Office-level

- Overall strategic direction and focus

BIOENERGY TECHNOLOGIES OFFICE

### TECHNOLOGY AREA SCORE RESULTS



2013 PEER REVIEW REPORT

| Scored Criteria              | Sun-Setting | New Projects | Existing |
|------------------------------|-------------|--------------|----------|
| Overview                     | 5%          | 5%           | 5%       |
| Approach                     | 15%         | 25%          | 20%      |
| Accomplishments/<br>Progress | 50%         | 10%          | 30%      |
| Relevance                    | 30%         | 25%          | 25%      |
| Future Work                  | 0%          | 35%          | 20%      |

# BETO Review Session Leads

| Technology Area                         | Session Lead                      |
|---|-----------------------------------|
| Algae                                   | Alison Goss Eng                   |
| Biochemical Conversion                  | Kevin Craig / Bryna Guriel        |
| Thermochemical Conversion               | Kevin Craig / Nichole Fitzgerald  |
| Demonstration and Market Transformation | Jim Spaeth                        |
| Analysis and Sustainability             | Alicia Lindauer / Kristen Johnson |
| Feedstock Production and Logistics      | Alison Goss Eng / Steve Thomas    |
| Cookstoves                              | Elliott Levine                    |
| Overall Coordination                    | Valerie Reed                      |

# Peer Review Meeting Logistics

## Shuttle Schedule:

- March 23 - March 26
- Mornings, 6:30am – 8:30am and Evenings 4:00pm – 6:00pm
- Loops every 15 min
  - Pentagon City Metro Station (S. Hayes St. & 12<sup>th</sup> Street)
  - Hilton Alexandria Mark Center (Front Hotel Entrance)

## Parking

- \$12/day at Hotel

## Lunch

- Provided for reviewers and Steering Committee
- Available for purchase to others

## Friday Session

- Closed door discussion with Lead Reviewers, Steering Committee, and BETO Leadership



## Additional Slides

# High Level Agenda

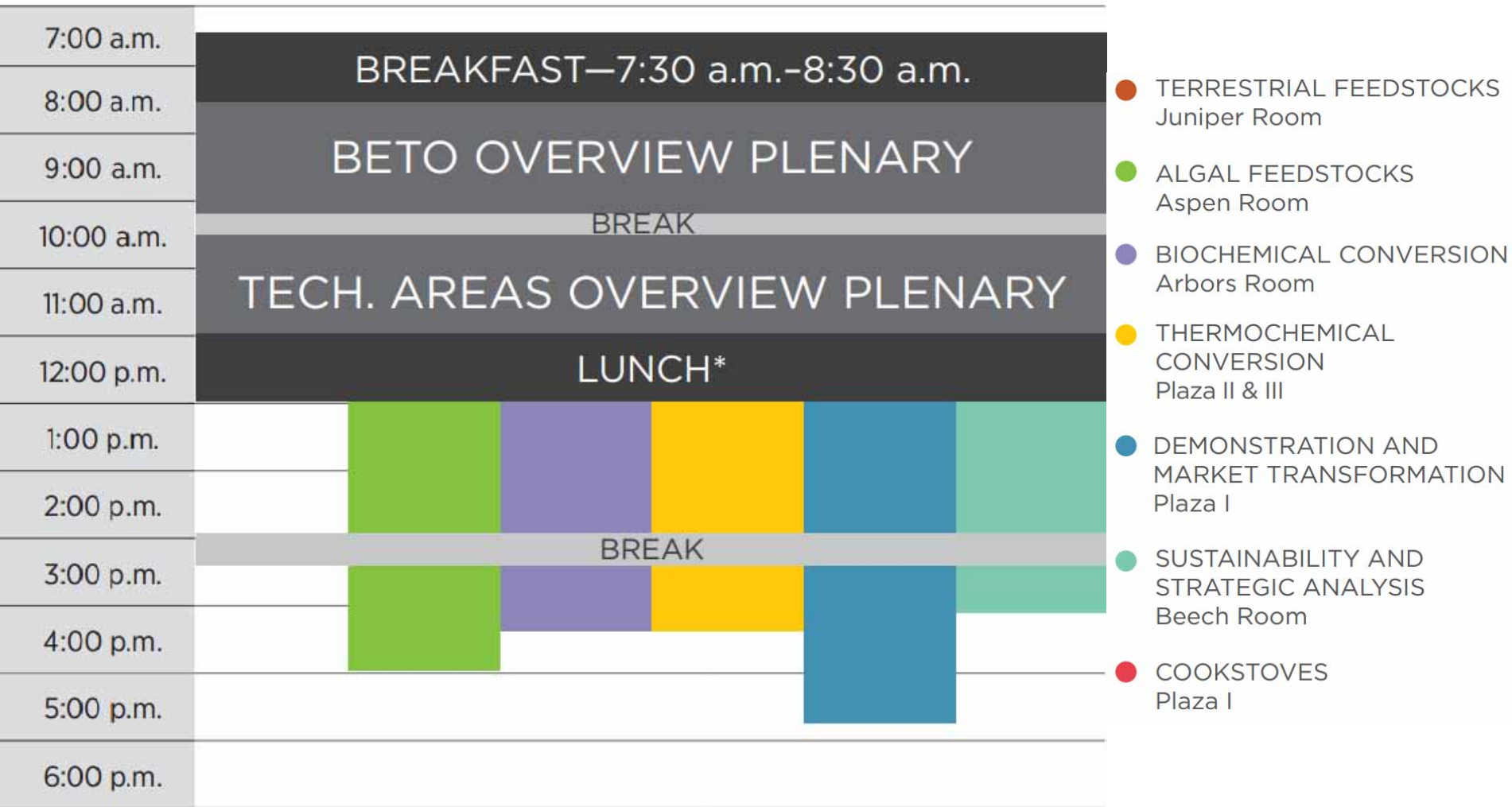
## BETO Project Peer Review – March

|                  | Monday | Tuesday | Wednesday | Thursday | Friday              |
|------------------|--------|---------|-----------|----------|---------------------|
| General Session: | DMT    | Plenary | Plenary   | RS       | Plenary             |
| Keynote          | AF     |         |           | RS       |                     |
| Office Overview  | SSA    |         |           | RS       |                     |
| Program Overview | TF     |         |           | RS       |                     |
|                  | BC     |         |           |          | RS                  |
|                  | TC     |         |           |          | RS                  |
|                  |        |         |           | CS       | RS                  |
|                  |        |         |           |          | Lead Rev. and SC    |
|                  |        |         |           |          | Facilitated Session |

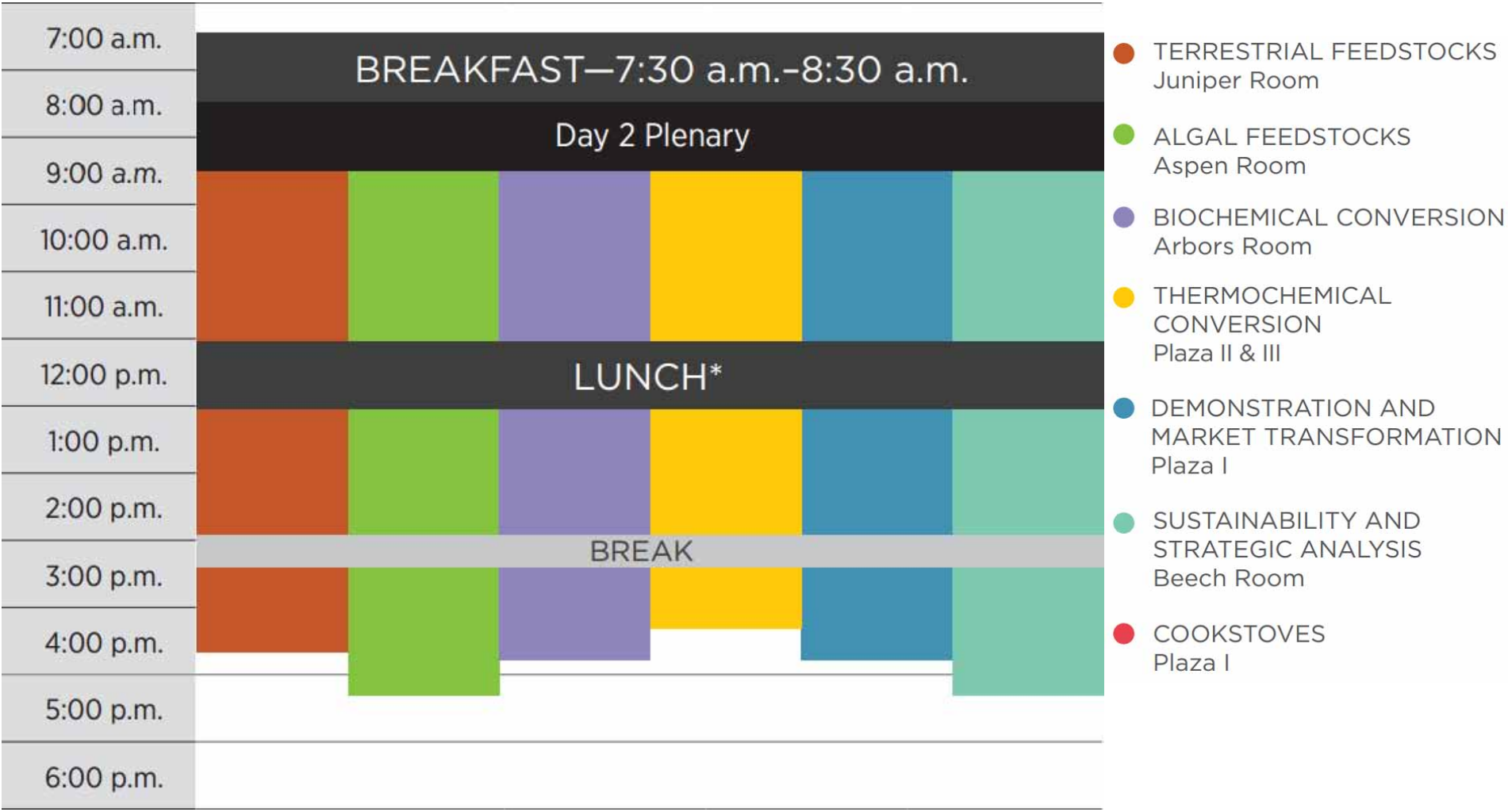
### Agenda Legend:

- \* DMT: Demonstration and Market Transformation
- \* TC: Thermochemical Conversion
- \* SSA: Sustainability and Strategic Analysis
- \* AF: Algal Feedstocks
- \* TF: Terrestrial Feedstocks
- \* BC: Biochemical Conversion
- \* CS: Cookstoves
- \* RS: Review Session

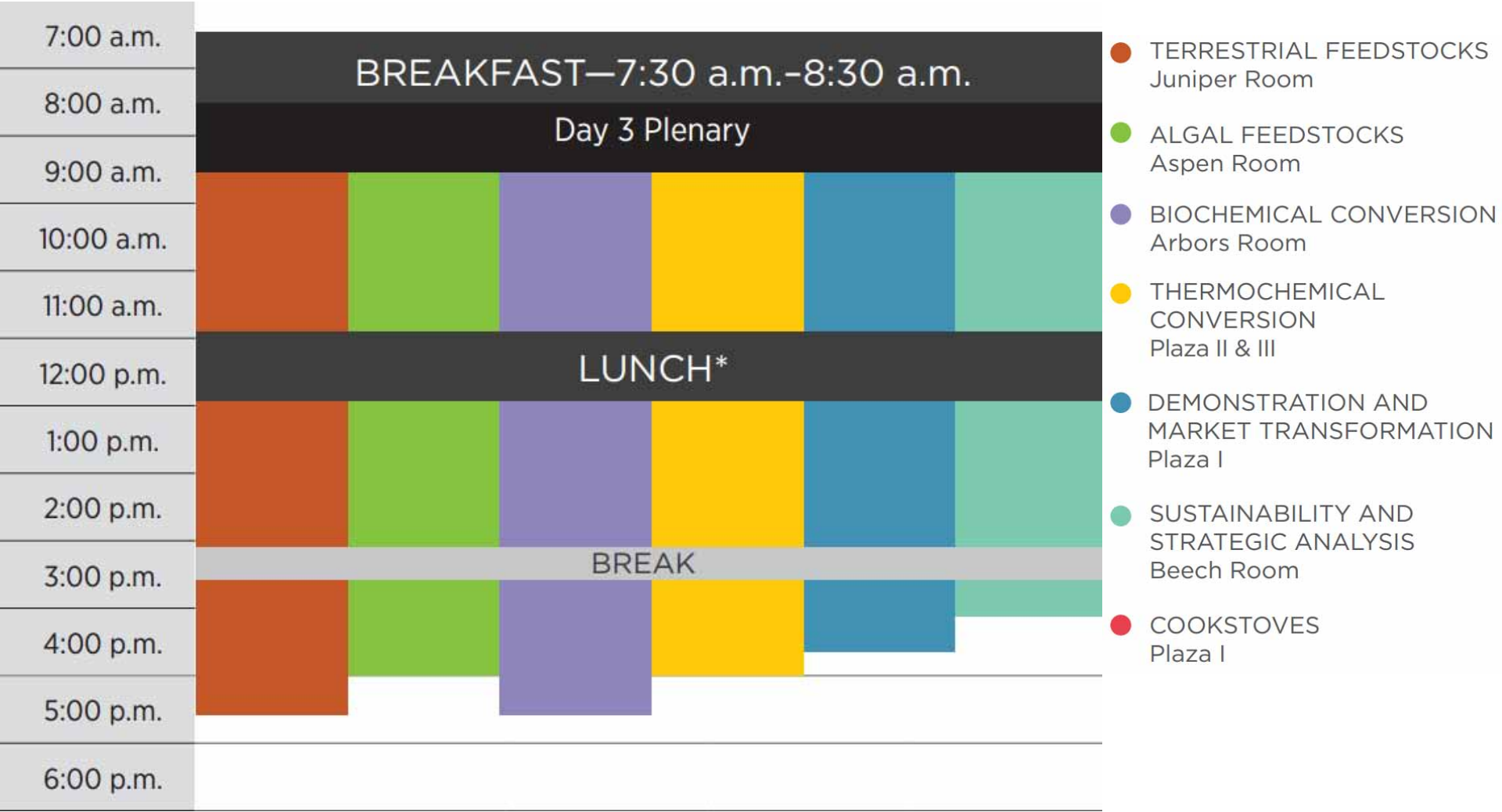
# Day 1: Monday, March 23



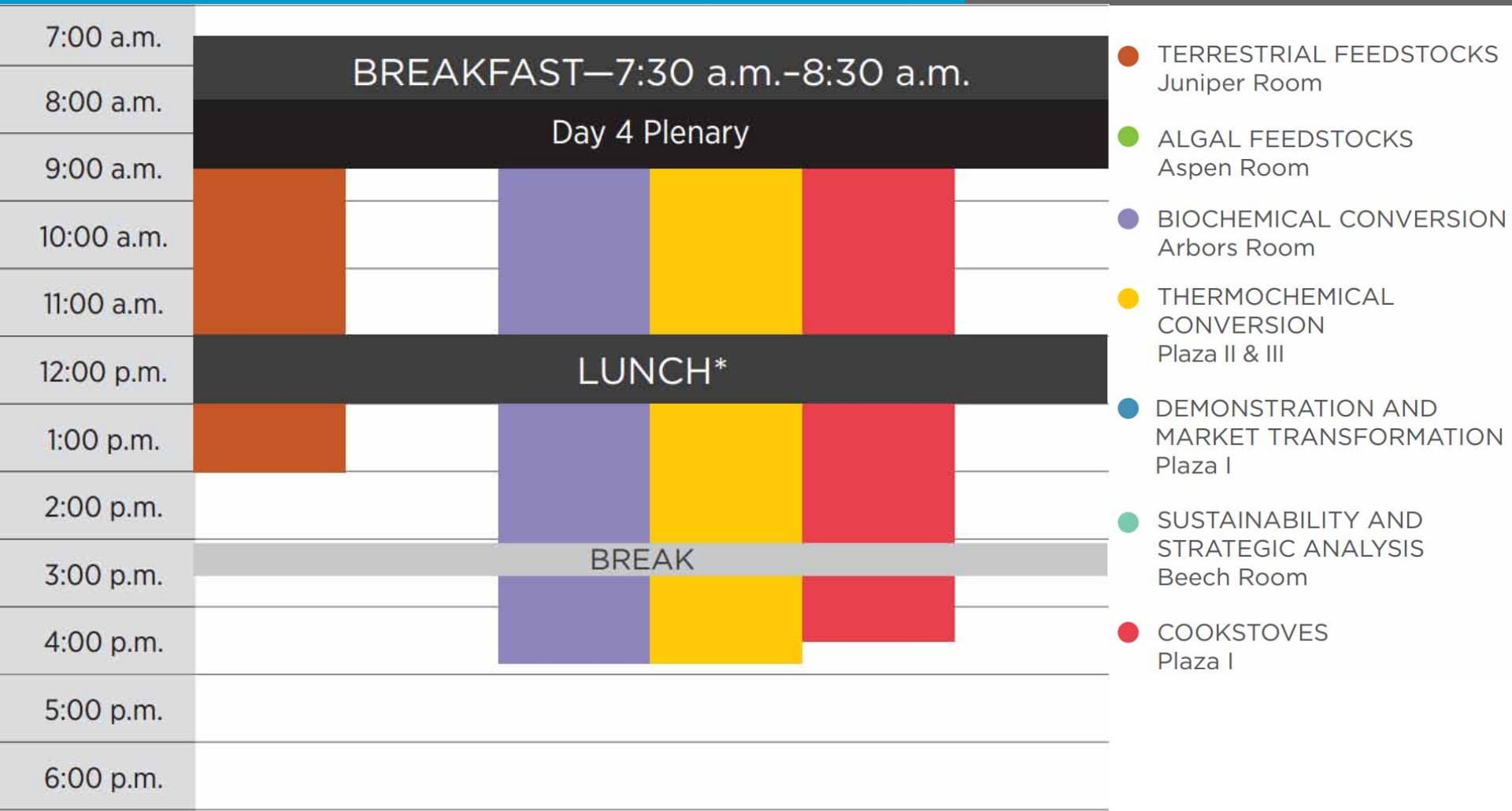
# Day 2: Tuesday, March 24



# Day 3: Wednesday, March 25



# Day 4: Thursday, March 26





# Day 5: Friday, March 27

|            |  |   |
|------------|--|---|
| 7:00 a.m.  | BREAKFAST—7:30 a.m.–8:30 a.m.  | ● TERRESTRIAL FEEDSTOCKS<br>Juniper Room              |
| 8:00 a.m.  |  |   |
| 9:00 a.m.  | CLOSED DOOR FACILITATED DISCUSSION FOR LEAD REVIEWERS AND THE STEERING COMMITTEE | ● ALGAL FEEDSTOCKS<br>Aspen Room                      |
| 10:00 a.m. |  | ● BIOCHEMICAL CONVERSION<br>Arbors Room               |
| 11:00 a.m. |  | ● THERMOCHEMICAL CONVERSION<br>Plaza II & III         |
| 12:00 p.m. |  | ● DEMONSTRATION AND MARKET TRANSFORMATION<br>Plaza I  |
| 1:00 p.m.  | LUNCH*   | ● SUSTAINABILITY AND STRATEGIC ANALYSIS<br>Beech Room |
| 2:00 p.m.  |  |   |
| 3:00 p.m.  |  | ● COOKSTOVES<br>Plaza I                               |
| 4:00 p.m.  |  |   |
| 5:00 p.m.  |  |   |
| 6:00 p.m.  |  |   |