

Feedstock Conversion Interface Consortium

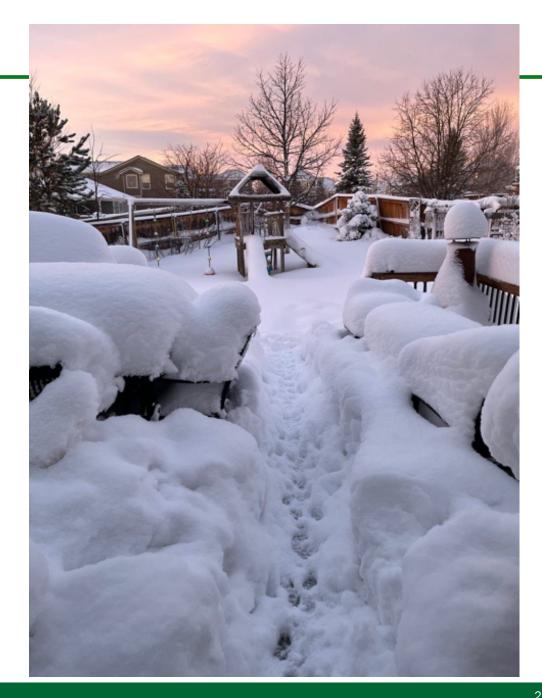
Peer Review Introduction

March 15 2021



Greetings From Snowy Colorado!





Agenda

"Core" AOPs
(Annual Operating Plan)

Day 6 - MONDAY, MARCH 15, 2021			
Start End	FEEDSTOCK CONVERSION INTERFACE CONSORTIUM		
Time EST Time EST	Presentation	Organization	Presenter
11:00 AM 11:30 AM	GATHER, TECH CHECK, NETWO	ORKING QUESTIONS	
11:30 AM 3:55 PM	Feedstock Conversion Interface Consortium	BETO	Liz Moore
11:30 AM 11:40 AM	Introductions/Expectations	BETO	Peer Review Lead
11:40 AM 12:10 PM	FCIC Overview	NREL	Ed Wolfrum
12:10 PM 12:35 PM	Task X - PI/PM	NREL	Amie Sluiter
12:35 PM 1:05 PM	BREAK	X	×
1:05 PM 1:40 PM	Task 2 - Feedstock Variability	INL	Allison Ray
1:40 PM 2:15 PM	Task 5 - Preprocessing	INL	Vicki Thompson
2:15 PM 2:45 PM	BREAK	*	
2:45 PM 3:20 PM	Task 3 - Material Handling	INL	Yidong Xia
3:20 PM 3:55 PM	Task 6 - High Temperature Conversion	NREL	Daniel Carpenter
3:55 PM 4:25 PM	Reviewer Wrap Up and Debrief	Reviewers	1
Day 7 - TUESDAY MARCH 16, 2021			
11:00 AM 11:30 AM	GATHER, TECH CHECK, NETWORKING QUESTIONS		*
11:00 AM 5:10 PM	Feedstock Conversion Interface Consortium	BETO	Liz Moore
11:30 AM 11:40 AM	Introductions/Expectations	BETO	Peer Review Lead
11:40 AM 12:15 PM	Task 7 - Low Temperature Conversion	ANL	Phil Laible
12:15 PM 12:50 PM	Task 1 - Materials of Construction	ORNL	Jun Qu
12:50 PM 1:20 PM	BREAK		
1:20 PM 1:55 PM	Task 8 - TEA/LCA	PNNL	Steven Phillips
1:55 PM 2:20 PM	Task 4 - Data Management	PNNL	Jim Collett
2:20 PM 2:55 PM	DFO - Jenike & Johanson	LANL	Troy Semelsberger
2:55 PM 3:25 PM	BREAK 🔆		
3:25 PM 4:00 PM	DFO - Fulcrum	Fulcrum	Jaya Shankar Tumuluru
4:00 PM 4:35 PM	DFO - The Wonderful Company	NREL	Daniel Carpenter
4:35 PM 5:10 PM	DFO - Forest Concepts	ORNL	Jun Qu

"DFOs"
(Direct Funding Opportunity)

FCIC Overview

- "FCIC 1.0"
 - All activities 2018 & prior
 - Focused on reliability
- Reboot ~October 2018

- "FCIC 2.0"
 - Overview presented at 2019 Peer Review
 - Focus on First Principles understanding (QbD approach)

Feedstock-Conversion Interface Consortium

The Feedstock-Conversion Interface Consortium (FCIC) is led by DOE as a collaborative effort among 9 National Labs

Founding principles

- Biomass feedstock properties are variable and different from other commodities
- **Empirical** approaches to address these issues have been unsuccessful
- The biomass supply chain introduces **additional variability**: growth factors, during harvest/storage, during comminution,

The FCIC seeks to systematically understand and mitigate this feedstock and process variability to reduce the risk for biorefineries



Feeding & Handling

Size

Reduction

& Milling

Variability

Pretreatment

Fuels

or

Products



Plant Genetics



Harvest Practices

Transportation

Storage



Variability

Separations



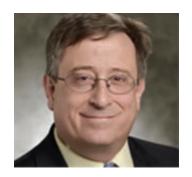
Conversion



FCIC Team



Beau Hoffman



Mark Elless



Alexander Jansen



Liz Moore



Art Wiselogel

FCIC Review Panel











Mark Penshorn, Penshorn Analysis (Lead Reviewer)
Kim Nelson, GranBio
Paul Paxson, E3 Consulting
Mike Tupy, Cargill
Phil Weathers, Weathers Associates Consulting



Questions? Help?

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