

**Welcome to the SPRUCE All-Hands Meeting!**  
**May 13-14, 2025**

**WiFi: Hilton\_Meetings; Password: SPRUCE2025**



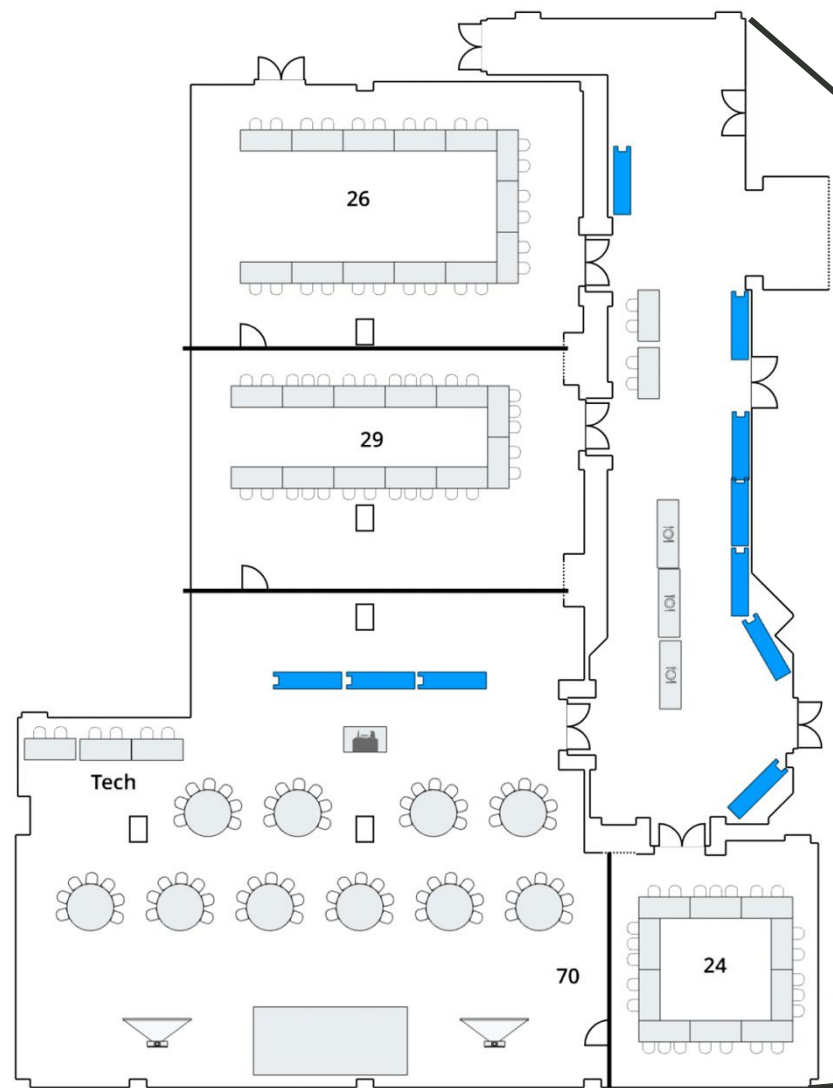
# Code of Conduct

- Treat colleagues respectfully: know and befriend your colleagues.
- Acknowledge and reward successes, large and small.
- Be deeply critical of ideas, but not people.
- Maintain a questioning attitude.
- Consider power differentials and maintain vigilance for physical and emotional safety.
- Report concerns.

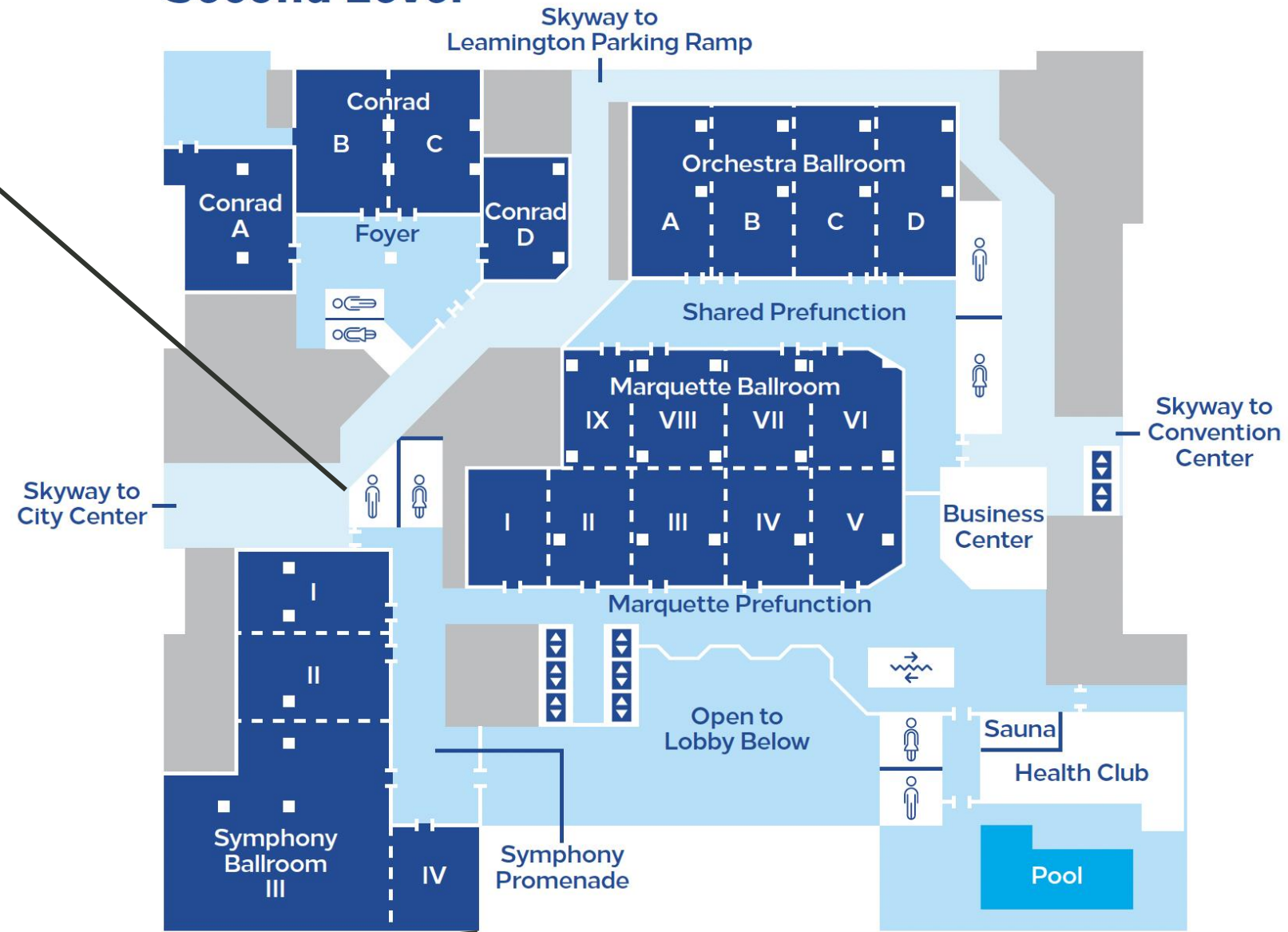




# Orientation



## Second Level





# Meeting Objectives

- Share recent findings on SPRUCE research through oral and poster presentations;
- Synthesize results across research efforts;
- Hold multiple breakout group discussions on broadly relevant science topics, data-model comparisons, final-year and post-treatment data collection, decommissioning, SPRUCE operations;
- Invite feedback from the SPRUCE Science Advisory Board.



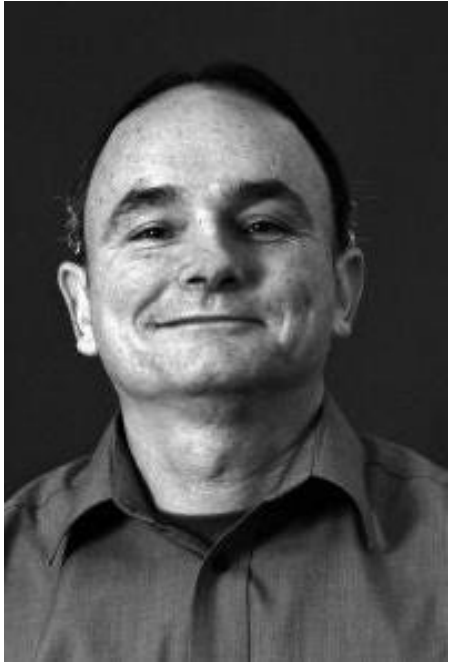


# Welcome to our Science Advisory Board!



**Heidi Asbjornsen**

Professor,  
University of New  
Hampshire



**Scott Bridgham**

Professor  
Emeritus,  
University of  
Oregon



**Serita Frey**

Professor,  
University of New  
Hampshire



**Jason Keller**

Professor,  
Claremont  
McKenna College



**Nate McDowell**

Staff Scientist,  
Pacific Northwest  
National  
Laboratory



# Science Advisory Board Charge

- Please ask a lot of questions!
- Feel free to join any of the breakout group discussions.
- Please be prepared to provide oral feedback to the SPRUCE team at the end of Day 2 (Wednesday).
- Please provide written feedback within a week or two following the meeting.
- As we move towards the end of the 10-year SPRUCE experiment, we are especially looking for feedback on synthesis activities, and final year and post-treatment sampling activities.



# All-Hands Meeting Agenda Overview

Day/Time	Topics
Tuesday AM	<i>DOE Program Manager Feedback; Science Talks; Poster Lightning Talks</i>
Tuesday PM	<i>Poster Session; Small-Group Breakout Discussions</i>
Wednesday AM	<i>Science Talks; Small-Group Breakout Discussions</i>
Wednesday PM	<i>Group Photo; Whole-Team Discussions; SAB Feedback</i>
Thursday	<i>Carbon/Nutrient Budget Workshop</i>



# All-Hands Meeting Agenda Overview – Day 1

Start Time	Topic	Lead
8:00am	<i>Breakfast Available</i>	
8:30am	Working breakfast: Welcome, introductions, meeting overview and objectives, and charge to SPRUCE SAB	Natalie Griffiths
8:45am	DOE Program Manager feedback	Dan Stover
9:00am	Science talk: SPRUCE carbon budget	Natalie Griffiths
9:15am	Science talk: SPRUCE nutrient budget	Verity Salmon
9:30am	Science talk: An overview of ELM-SPRUCE modeling efforts	Daniel Ricciuto
9:45am	Science talk: The fate of peatland carbon interactively determined by elevated CO <sub>2</sub> and warming	Jian Zhou
10:00am	<i>Break</i>	
10:30am	Science talk: Greenhouse gas response to eCO <sub>2</sub> and increased temperatures	Jonathan Stelling
10:45am	Science talk: Methane production in response to rising temperature	Rachel Younge
11:00am	Science talk: Interactive impacts of drought and warming on CH <sub>4</sub> cycling in a temperate bog	Xiaofeng Xu
11:15am	Flash talks: Poster introductions	SPRUCE team
12:00pm	Working lunch: SPRUCE Reflection and Awards	Natalie Griffiths



# All-Hands Meeting Agenda Overview – Day 1

Start Time	Topic	Lead
1:00pm	Poster Session	SPRUCE team
2:45pm	<i>Break</i>	
3:00pm	Breakout Discussions: Choose one discussion group (40 min discussion, 5 min rotation) 1. Peat (elemental pools and elevation). Colin McCarter and Melanie Mayes. 2. Water relations. Jeff Warren and Jonathan Stelling. 3. Plant functional types. Dave Weston and Xiaoying Shi. 4. Biogeochemical processes. Caitlin Petro and Yaoping Wang.	SPRUCE team
3:45pm	Breakout Discussions: Choose one discussion group (40 min discussion, 5 min rotation) – <b>Same Topics</b>	SPRUCE team
4:30pm	Discussion debrief (5 min per group)	Natalie Griffiths
4:50pm	Summary of Day 1, Plans for Day 2	Natalie Griffiths
5:00pm	<i>Adjourn</i>	



# Reminder that this a Hybrid Meeting

- Please use the microphones when speaking.
- Please utilize Zoom in breakout rooms, when possible.
- Please speak clearly and with sufficient volume.
- Utilize the Google Documents for note taking, idea sharing.

**The Zoom and Google Drive links can be found in the Agenda. Google Drive is also here -->**





# Discussion Group Leads

- Be sure to take notes (either one of the leads or ask someone in the group).
- Be prepared to provide a short summary (<5 min) during the debrief. This can be a verbal summary or slides.
- Please steer the conversations in a way to make sure nobody is dominating and try to include everyone.



# Thank You All for Taking Time to Participate in the SPRUCE All Hands Meeting!

Special thanks to...

- ORNL Admin Team: Alexis Hoy and Amber Bristow
- ORNL Conference Planning: Michelle Allen
- Hilton Minneapolis Staff
- Many SPRUCE researchers for helping to plan the meeting, set the agenda, etc.















# All-Hands Meeting Agenda Overview – Day 1

Start Time	Topic	Lead
8:00am	<i>Breakfast Available</i>	
8:30am	Working breakfast: Welcome, introductions, meeting overview and objectives, and charge to SPRUCE SAB	Natalie Griffiths
8:45am	DOE Program Manager feedback	Dan Stover
9:00am	Science talk: SPRUCE carbon budget	Natalie Griffiths
9:15am	Science talk: SPRUCE nutrient budget	Verity Salmon
9:30am	Science talk: An overview of ELM-SPRUCE modeling efforts	Daniel Ricciuto
9:45am	Science talk: The fate of peatland carbon interactively determined by elevated CO <sub>2</sub> and warming	Jian Zhou
10:00am	<i>Break</i>	
10:30am	Science talk: Greenhouse gas response to eCO <sub>2</sub> and increased temperatures	Jonathan Stelling
10:45am	Science talk: Methane production in response to rising temperature	Rachel Younge
11:00am	Science talk: Interactive impacts of drought and warming on CH <sub>4</sub> cycling in a temperate bog	Xiaofeng Xu
11:15am	Flash talks: Poster introductions	SPRUCE team
12:00pm	Working lunch: SPRUCE Reflection and Awards	Natalie Griffiths