

## Workshop 3 - HEXCRETE COMMERCIALIZATION WORKSHOP

Date: June 22 and 23, 2016

Location: Crowne Plaza Denver Airport Convention Ctr, Denver, CO

Overall Objective: Present wind resources at elevated hub heights and showcase Hexcrete technology as an excellent choice for constructing tall wind turbine towers and reducing levelized cost of energy (LCOE).

Workshop Format: Technical presentations and panel discussion

Organizers: Sri Sritharan and Julienne Krennrich

### AGENDA

Activity – June 22, 2016 (Atrium)	Time
1. Workshop Reception (Heavy hors d'oeuvres & cash bar)	6:30 pm – 8:00 pm
Topic/Activity – June 23, 2016 (Vail Room)	Time
2. Continental Breakfast and Registration	7:45 am
3. <a href="#">Introduction</a> – Sri Sritharan, ISU	8:30 am
Keynote Presentation - 1	
4. <a href="#">U.S. DOE Wind Program Overview</a> – Enabling Wind Nationwide – Megan McCluer, DOE	8:45 am
Hexcrete Tower Technology	
5. <a href="#">Concept and Benefits</a> – Sri Sritharan, ISU	9:15 am
6. <a href="#">Tower Design</a> – Robert Peggarr, ISU	9:30 am
7. <a href="#">Tower Optimization</a> – Elaine Tang, SIEMENS Corporate Tech.	9:45 am
8. <a href="#">Foundation Design</a> – Markus Wernli, BergerABAM	10:00 am
Coffee Break	
9. <a href="#">Tower Fabrication and Structural Testing</a> – Todd Culp, Coreslab Omaha; and Sri Sritharan, ISU	10:30 am
10. <a href="#">Tower Assembly, Scheduling and LCOE</a> – Phil Barutha, ISU; David Jeong, ISU; and Tyler Stehly (NREL)	10:45 am
11. Q/A and Discussion – Julienne Krennrich (Lead)	11:10 am
Tall Wind Characterization	
12. <a href="#">Wind Energy Potential in the Midwest at Higher Hub Heights</a> – Gene Takle, ISU	11:30 am

## Hexcrete Tower for Harvesting Wind Energy at Taller Hub Heights (DE-EE0006737)

13. <a href="#">Using SoDAR Wind Profiling to Characterize Winds at Hub Height and Beyond</a> – Nic Wilson, Vaisala	11:45 am
14. Q/A and Discussion – Sri Sritharan (Lead)	12:00 pm
Lunch (Atrium)	12:10 pm
Keynote Presentation – 2 (Vail Room)	
15. Opportunities for Wind Power in Low- and Mid-Quality Resource Regions –Eric Lantz, NREL	1:00 pm
Panel Discussion – Hexcrete/Tall Tower Implementation Lead: Jason Cottrell, NREL; Members: Markus Wernli, BeregrABAM; Kirk Morgan, BARR; Chandler Thomas, Mortenson;and David Dieter, Midstate Precast	
16. Introduction - Jason Cotrell, NREL	1:30 pm
17. <a href="#">SWOT Analyses of Hexcrete Technology</a> – Markus Wernli, BergerABAM	1:40 pm
18. Foundations for Tall Towers – Kirk Morgan, BARR	2:00 pm
19. Scheduling and Crane Considerations – Chandler Thomas, Mortenson	2:10 pm
20. Precast Industry Considerations – David Dieter, Midstate Precast	2:20 pm
21. Q/A and Discussion – Jason Cotrell (Lead)	2:30 pm
22. Next steps: Overview of commercialization path, schedule and ISU role – SriSritharan, ISU and Markus Wernli, BergerABAM	3:00 pm
23. Closure of Workshop – Julienne Krennrich, ISU	3:15 pm
Coffee Break	3:20pm
Discussion on Prototyping of a Hexcrete Tower (Vail Room) – Participation Optional Lead: Sri Sritharan, ISU; Julienne Krennrich, ISU	
24. Implementation strategy	3:30 pm
25. Joint Industry Partnership (JIP)	3:45 pm
26. Discussion and Q/A	4:00 pm
27. Identify Potential Members for JIP	4:30 pm
28. Adjourn	5:00 pm