

Tuesday, February 24

7:30 am Early Registration & Continental Breakfast

Introduction

8:30am Tom Ashwill, SNL, *Welcome to Conference and Overview of Blade Technology*

Keynote

9:00am Peter Jamieson, Garrad-Hassan, *Evolution of Modern Wind Turbine Rotors*

Design & Manufacturing

9:30am Brian Glenn, Clipper, *The Evolution of Blade Manufacturing*

10:00am ****Break**

10:30am Ramesh Gopalakrishnan, GE Wind, *Blade Design & Manufacturing: A GE Perspective*

11:00am Derek Berry, TPI, *Blade Manufacturing Improvements*

11:30am Dayton Griffin, GEC, *Cost Performance Trade-offs for Carbon Fiber*

12:00pm ****Lunch**

1:00pm Richard Palmer, SP Systems, *An Integrated Approach to Successful Blade Development*

1:30pm Kyle Wetzel, Wetzel Engineering, Inc., *Large and Small Blades, Design & Manufacturing*

2:00pm Jean Lonjaret, Southwest Wind Power, *Design & Manufacturing of Injection Molded Small Blades*

2:30pm Bill Leighty, Alaska Applied Sciences, *High Compression Bladder Molded Prepreg (HCBMP) for Low-Cost Production of a 6-m Blade*

Materials & Codes

2:45pm Tom Lemire, Toho, *Carbon Fibers-What's in the Wind?*

3:10pm ****Break**

3:30pm Jeff Engbrecht, Toray, *Relevant Issues of Carbon Fiber for the Emerging Wind Market*

4:00pm Mansour Mohamed, 3Tex, *3d Weaving Technology*

4:25pm Martin Kokoshka, Grafil Inc., *Value Chain of Carbon Fibers in the Wind*

4:45pm *Announcements and Adjourn*

7:00pm *Banquet (Guest Speaker - Mike Zuteck)*

Wednesday, February 25

7:30 am Late Registration & Continental Breakfast

Materials & Codes(continued)

8:00am John Mandell, MSU, *Materials Characterization*

8:30am Bruno Boursier, Hexcel Research & Technology, *Compression Testing of Carbon Composites for Structural Applications in Wind Blades*

9:00am Scott Schreck, NREL, *Turbine Aerodynamics & Modeling Uncertainties*

9:30am Craig Hansen, Windward Engineering, *Blade Load Modeling*

10:00am ****Break**

10:20am Daniel Laird, SNL, *Codes for Blade Design*

Testing & Certification

10:40am Walt Musial, NREL, *Testing & Certification*

11:10am Arno van Wingerde, Knowledge Centre WMC, *Design & Testing of Rotor Blades*

11:35am Bill Colavecchio, Underwriters Laboratories, *Certification*

11:55pm ****Lunch**

1:00pm Jan Hornbech, Risoe National Laboratory, *Blade Testing*

1:25pm H.B Ben Hendriks, ECN, *Application of Optical Fibers for Blade Load Measurement & Condition Monitoring*

Future Trends

1:45pm Paul Veers, SNL, *Session Introduction*

1:50pm Case van Dam, UC Davis, *Airfoils for Structures*

2:20pm Marco Zvanik, Owens-Corning, *Blade Manufacturing Issues & Trends*

2:50pm ****Break**

3:15pm Don Lobitz, SNL, *Stability Concerns for Large Blades*

3:40pm Doug Cairns, MSU, *Design Manufacturing & Material Trends in Wind Turbine Blade Structures*

4:10pm Peter Fuglsang, Risoe National Laboratory, *Aeroelastic Blade Design- Slender Blades with High Lift Airfoils Compared to Traditional Blades*

4:30pm Ken Fisher, Goodrich De-icing and Specialty Systems, *Integrated Protection & Self Monitoring Rotor System*

4:50pm Paul Veers, SNL, *Rotor Blade Research-Where Do We Go From Here?*

5:05pm *Adjourn*