

**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*