WindSTAR Industrial Advisory Board Meeting

Agenda

February 3 and 4, 2020

DGA 1.102B
800 West Campbell Rd., Richardson, TX 75080

Day 1: Monday, February 3

07:30AM Registration (DGA 1.102B)

07:30AM - 08:30AM Continental Breakfast & Networking (DGA 1.102B)

08:30AM - 08:45AM Welcome Remarks (DGA 1.102C)
Mario Rotea, WindSTAR Site Director, UT Dallas

08:45AM - 09:15AM NSF I/UCRC Presentation
Dr. Don Davis, NSF Center Evaluator

09:15AM - 09:30AM Meeting Goals, WindSTAR Center Capabilities and IAB Update
Dr. Christopher Niezrecki, WindSTAR Director
Dr. Mario Rotea, WindSTAR Site Director

09:30AM – 09:55AM Project Presentations, Discussion, L.I.F.E. Forms
(15 min. presentations, 5 min. discussion, 5 min. LIFE form)

09:55AM - 10:15AM Break (DGA 1.102B)

10:15AM - 11:30AM Project Presentations, Discussion, L.I.F.E. Forms
(15 min. presentations, 5 min. discussion, 5 min. LIFE form)
A2-19: Cure Cycle Optimization of Wind Turbine Blades Adhesive Bondlines
A3-19: Structural Wind Blade Repair Optimization
B1-19: Long-duration testing of the Acoustic Blade Monitoring System in a Wind Farm

11:30AM – 12:30PM Lunch (DGA 1.102B)

12:30PM – 02:10PM Project Presentations, Discussion, L.I.F.E. Forms
(15 min. presentations, 5 min. discussion, 5 min. LIFE form)
C1-19: Data-driven Reduced Order Model based on LiDAR Measurements for Predictions of Wind-Farm Annual Energy Production
C2-19: Decision Support Using FAST Aero-elastic Models of Operating Wind Turbines
C3-19: Modeling of Power Losses due to Leading Edge Erosion
**D1-19: Development of a Computational Tool to Maximize Wind Farm AEP by Yaw Angle Optimization**

02:10PM – 03:30PM  **Member Company Presentations**

03:30PM – 03:50PM  **Break (DGA 1.102B)**

03:50PM – 04:20PM  **Discussion of WindSTAR Research Roadmap**

Dr. Christopher Niezrecki, WindSTAR Director

Dr. Mario Rotea, WindSTAR Site Director

04:20PM – 04:30PM  **Recap & Evening Preview**

Dr. Mario Rotea, Review of Evening and Day 2 Activities

04:30PM – 05:00PM  **Parallel Session: Center Operations Discussion**

Mr. Patrick Drane, Assistant Director for Operations

**NEW TOPICS**, summer meeting dates, Linked-In Group

04:30PM – 05:00PM  **Parallel Session: Information Session for Guests** (DGA 1.102B)

Dr. Christopher Niezrecki, WindSTAR Director

Dr. Mario Rotea, WindSTAR Site Director

Dr. Don Davis, NSF Evaluator

05:30PM – 06:00PM  **Poster Session** (DGA 1.102B)

06:00PM – 08:00PM  **Dinner & Keynote Presentation** (DGA 1.102B)

**Dr. Paul Veers, Chief Engineer, NREL National Wind Technology Center**

*Is Wind Energy Done? Remaining Grand Challenges in the Science of Wind Energy*
WindSTAR Industrial Advisory Board Meeting

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February 3 and 4, 2020

DGA 1.128

Day 2: Tuesday, February 4

07:30AM – 08:00AM  Arrival, Continental Breakfast, Networking (DGA 1.128)
08:00AM – 09:30AM  L.I.F.E. Form Review and Discussion
09:30AM – 10:45AM  Closed Door IAB Meeting
09:30AM – 10:45AM  WindSTAR Faculty Meeting (ECSW 3.375)
10:45AM – 11:00AM  Break
11:00AM – 11:30AM  IAB Report Out, Discussion
11:30AM – 11:45AM  Action Items and Plan for Summer Meeting
11:45AM – 12:00PM  Summary and Closing Remarks
                       Dr. Christopher Niezrecki, WindSTAR Director
                       Dr. Mario Rotea, WindSTAR Site Director
12:00PM  Adjourn Meeting (To Go Lunch Boxes)