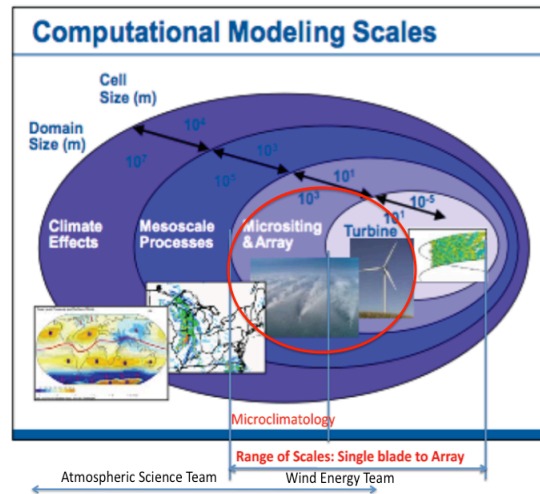


**BUILDING PARTNERSHIPS IN TEXAS:  
The Making of the Silicon Valley for Wind  
in Texas**

December 10, 2012

Place: Hyatt Regency Dallas-Ft. Worth Airport  
Meeting Room: Executive Conference Level,  
Room 1105 & 1107



- WE Arrays and the Effect on the Microclimate.
  - Inflow Characterization & Resource Assessment.
  - Grid Integration
  - Energy Storage
2. Develop a Fluid Dynamic Conference: *"The Lone Star Fluid Dynamics Meeting"*.
  3. Partnership with the TWA: Join Workshop, training, short courses etc.
  4. Field Wind Energy Projects

- b. Prof. Ed White
  - c. Prof. Jorge Alvarado
6. **Baylor University**
    - a. Prof. William Anderson
  7. **Southern Methodist University**
    - a. Prof. Volkan Otugen
  8. **SCORE**
    - a. Keith Kennedy
  9. **National GEM Consortium**
    - a. Dr. Marcus Huggans
  10. **Texas Tech University**
    - a. Prof. Andy Swift
    - b. Prof. Burak Aksak
    - c. Prof. John Schroeder
    - d. Mrs. Dora Tidwell

**INTRODUCTION & OPPORTUNITIES**

8:00 – 9:00 AM  
Registration

8:00 – 9:00 AM  
Breakfast

9:00 - 9:30 AM  
**Welcome**  
Prof. Michael Sanfrancisco, Vice-President of Research, TTU

**Brief Discussion of Agenda & Outcomes of Meeting**  
Prof. Luciano Castillo, NWRC & TTU

9:30 – 11:00 AM  
**Introduction to Partners (5 minutes per person)**  
Brief Description of Key Areas at Home Institution & Interest

1. **UT Arlington**
  - a. Prof. Krishnan Rajeshwar
2. **UT Austin**
  - a. Prof. Charles Tinney
  - b. Prof. Jayant Sitohi
  - c. Prof. Lance Manuel
3. **UT San Antonio**
  - a. Prof. Kiran Bhaganagar
4. **University of Houston**
  - a. Prof. Fazle Hussain
  - b. Prof. Ray Cline
  - c. Prof. SuSu Wang

**10:30 - 10:45 AM Coffee Break**

5. **Texas A&M**
  - a. Prof. John Pappas

**PARTNERSHIPS & INDUSTRY CONSORTIUM**

11:00 – 11:10 AM  
**Brief Presentation of NWRC & Collaborations**  
Prof. Luciano Castillo, Texas Tech University

11:10 - 1:20 AM  
**Brief Presentation: Texas Wind Alliance & Industry Consortium**  
Prof. Ray Cline, University of Houston

11:20 - 11:30 AM  
**Brief Presentation of Work Force Development at TWEI**  
Prof. Andy Swift, Texas Tech University

11:30 – 11:40 AM  
**Brief Presentation on GEM Consortium & Industry**  
Dr. Marcus Huggans, GEM Consortium

11:40 – 12:10 PM  
**Follow up Discussions: (30 minutes)**  
Follow up: Opportunity for Joint Workshops, Workforce Development, and Short Courses?  
Possible Dates: Workshop?, Industry Consortium?

**12:15 – 1:15 PM LUNCH**

**THE LONE STAR FLUID DYNAMICS MEETING**

12:45 PM – 1:30 PM Fluid Dynamic Meeting  
**Lead: Profs. Charles Tinney, Volkan Otugen, William Anderson, Fazle Hussain, and Ed White.**  
Follow up: Name- Lone Star Fluid Dynamics Meeting?  
Outcomes: First Meeting, Location, Coordinators, and Dates?

**KEY OBJECTIVES OF THE MEETING:**

1. Establishing Key Partnerships within the State of Texas to address fundamental limiting issues affecting wind energy sector and bring fundamental knowledge of Fluid Dynamics to improve Wind Farm Underperformance.
  - Wake-to-Wake Interaction and Turbulence.
  - Layout Optimization, Uncertainty Propagation and Cost of Energy.

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## FIELD WIND ENERGY PROJECTS

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1:30 – 1:40 PM Offshore Wind Energy Project in Texas

Prof. John Pappas, Texas A&M

1:40 – 1:50 PM The SWIFT Facility at RTC-TTU

Prof. John Schroeder, Texas Tech University

1:50 – 2:00 PM Offshore Wind Project

Prof. Lance Manuel, UT Austin

2:00 – 2:10 PM Sub-scale Wind Farm Prototype

Prof. Jian Sheng, Texas Tech University

2:10 – 2:20 PM Full-scale Blade Turbines Measurements

Prof. Ed White, Texas A&M

**Discussion (30 Minutes): Opportunities, Outcomes.**

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## SUMMARY OF MAJOR OUTCOMES & FOLLOW UP

Prof. Fazole Hussain, University of Houston

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## CLOSING REMARKS:

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Prof. Volkan Otugen, Southern Methodist University

Prof. John Pappas, Texas A&M

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3:00 PM Adjourn

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