



American Association
for Wind Engineering

AMERICAN ASSOCIATION FOR WIND ENGINEERING 2010 WORKSHOP

THURSDAY & FRIDAY AUGUST 19TH AND 20TH

MARCO ISLAND, FLORIDA

SCHEDULE

Wednesday: Marriott Hotel

3:00 – 6:00 pm Registration desk open

(Palms Ballroom Coconut)

6:00 – 9:00 pm Welcome reception in the Penthouse*

(PH 1106 – Hotel rooftop)

Thursday: Palms Ballroom Coconut

Every presentation is scheduled for 15 minutes including questions and each session has 15 minutes of additional discussion upon the conclusion of all presentations.

8:30am Welcome

8:45am Session 1 - Wind Induced Damage

Damage Metrics for Wind Events

Dorothy A. Reed

Stochastic Damage Prediction Algorithm to Develop a Building Specific Damage Scenario

Joseph B. Dannemiller, et al.

The Future of the FE Scale

Franklin T. Lombardo

Preliminary Observations on Impact Probability on Windborne Compact Debris on Building

Facades: 2D versus 3D Trajectories

Farid Moghim, et al.

Vulnerability of Residential Glazing to

Lightweight Windborne Debris and Performance of Hurricane Shutters under Impact by Roof Tiles and 2 x 4 Lumber

George Fernandez, et al.

Latest Improvements in the Florida Public Hurricane Loss Model

Gonzalo Pita, et al.

10:30am Break*

10:45am Session 2 - Non-Hurricane Wind Loads

Physical Simulations of the Behavior of Vehicles in Tornadoes

F. L. Haan, Jr., et al.

Thunderstorm Wind Flow Characteristics and Their Effects on a Bluff Body

Franklin T. Lombardo

Investigation of the Axisymmetric Dry Downburst Wind Profile on Different Surfaces

Kalyan Kumar Das, et al.

Data Driven Models for Non-Stationary Winds and Their Load Effects

Megan McCullough, et al.

12:00pm Lunch*

1:15pm Session 3 - Wind Loading

On the Wind Loading of Lowrise Houses in the Presence of Tall Condominium Towers

Leighton Cochran, et al.

Wind Loads on Residential, Roof-mounted PV Arrays

Sarah Elizabeth Stenabaugh, et al.

Full-Scale and Modeled Hurricane Wind Loads on Residential Structures

Juan Antonio Balderrama, et al.

Predicting Wind Loads on Building Roofs and Parapets Using Artificial Neural Networks

Xinlai Peng

Low-Rise Building Flow Characterization and Measurement

Gabriel Lapilli, et al.

New Wireless Sensor System for Pressure Measurement

Gabriel Lapilli, et al.

3:00pm Break*

3:15pm Session 4 - Numerical Methods

A Comparison of Structural Force Estimations for Wind Load in Light-Frame, Low-Rise Building Systems

Peter L. Datin, et al.

Imperfect Spatial Coherence and Along-wind Loading on Low-Rise Buildings: Analytical and DAD Estimates

DongHun Yeo, et al.

Quasi- and Monte-Carlo- Based Methods for Statistical Buffeting Analysis of Long-Span Bridges Under the Effects of Turbulent Wind

Dong-Woo Seo, et al.

Modeling of PDFs of Non-Gaussian Data and System Response

Luping Yang, et al.

4:30pm Open time

6:30pm Meet for bus to dinner (main lobby)

7:00pm Dinner at Bistro Soleil*

* Included in registration fee

**Presentation scheduled for 30 minutes



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Every presentation is scheduled for 15 minutes including questions and each session has 15 minutes of additional discussion upon the conclusion of all presentations.

8:30am Session 5 - Program Development and Emerging Research

***Development of Multi-Disciplinary Program in Wind Science and Engineering*

Kishor Mehta

Progress Update on Wind-Driven Rain Ingress Research at the University of Florida

Forrest Masters

A Comparative Study between Static and Dynamic Testing of Wood Roof Sheathing Panels

Craig R. Dixon, et al.

Field Evaluation of Energy Efficiency of Foam Retrofitted Vented Attic

Sushmit Shreyans, et al.

Long-Term Effects of Water Leakage on Roof Sheathing Retrofitted with Closed-Cell Spray-Applied Polyurethane Foam

Kenton McBride, et al.

10:15am Break*

10:30am Session 6 - Extreme Winds and Wind-Driven Rain

WSR-88D Observations of Hurricane Boundary Layer Vertical Wind Profiles at Landfall

Ian M. Giammanco

Examination of the Coastal Transition Zone of Hurricane Frances

Brian D. Hirth, et al.

The Latest in Extreme Wind Speed Estimation

Franklin T. Lombardo

Standardizing Wind Field Observations: Concepts, Knowledge Gaps and Applications to AWOS/ASOS Data

Forrest Masters, et al.

Measurement, Analysis and Simulation of Wind-Driven Rain for Engineering Applications

Carlos Lopez, et al.

12:00pm Lunch*

1:15pm Session 7 - Full-Scale Facilities and Experiments

***Preliminary Evaluation of the Performance of a 12-Fan Wall of Wind testing Facility*

Tuan-Chun Fu, et al.

The Spatially Distributed, Fluctuating Loading of a Full Scale Hip Roof at #LP

David Henderson, et al.

Wind Loads to Wind Load Effects as

Determined from Full-Scale Measurements

Andrew Widmer, et al.

Validation of Facility Configuration and Investigation of Control Systems for the 1:10

Scaled Insurance Center for Building Safety Research

Jason Smith, et al.

Residential Roof Covering Investigation of Wind Resistance of Asphalt Shingles

Craig R. Dixon, et al.

Dynamic Pressure Loading of Large-Scale Building Systems

Yan Shen, et al.

3:15pm Closing

3:30pm Open time

4:00pm Everglades jetski tour (not included in registration, advance registration required)

Saturday: Marriott Hotel

8:00am Everglades jetski tour (not included in registration, advance registration required)

* Included in registration fee

**Presentation scheduled for 30 minutes