



10th Americas Conference on Wind Engineering

Sheraton Convention Center Hotel
Baton Rouge, Louisiana, USA

May 31-June 4, 2005

Conference
Program





- 1. Pastime Lounge**
252 South Blvd.
343-5490
- 2. Shucks on the Levee™**
Argosy Landing
378-6363
- 3. Argosy Atrium Buffet**
102 France St.
242-2600
- 4. Argosy Atrium Lounge**
Argosy Atrium
242-2610
- 4. Churchill's in the Atrium**
Argosy Atrium
242-2610
- 4. River Roast Café**
Argosy Atrium
242-2610
- 5. Frostop**
402 Government St.
344-1179
- 6. Beauregard Gallery**
715 Europe St.
383-1932

- 7. McDonalds**
720 Government St.
383-6478
- 8. Christina's**
320 St. Charles
336-9512
- 9. In the Shaw Center**
100 Lafayette Sts.
Tsunami
For information
call 346-5001
- 10. The Roux House**
143 Third St.
344-2583
- 11. Subway**
301 North Blvd.
381-8300
- 12. Jobe's Café**
315 North Blvd.
343-1874
- 13. The Black Forest**
321 North Blvd.
334-0059
- 14. Cafe' Mediterranean**
151 Third St.
336-4501

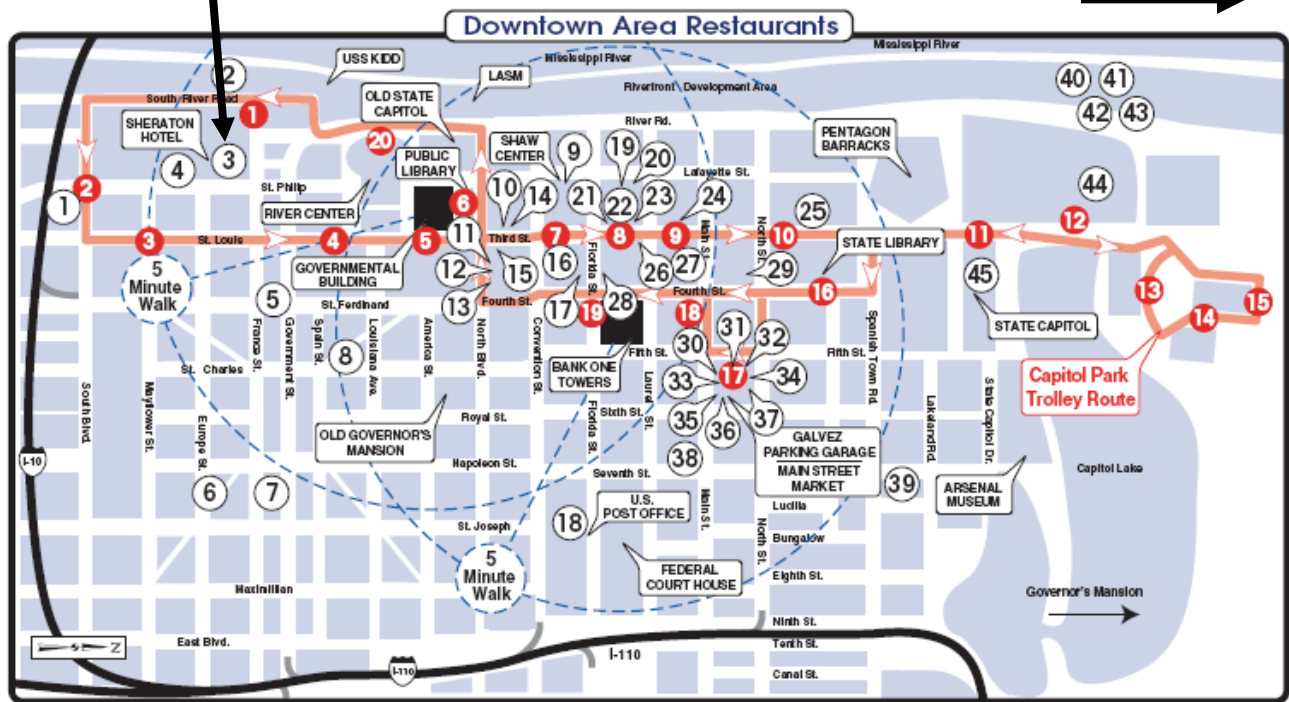
- 15. Downtown Seafood**
130 Third St.
346-6440
- 16. Marrazil**
214 Third Street
389-7002
- 17. Mickey's Varsity Shop Café**
340 Florida St.
334-0029
- 18. Patrick's**
750 Florida St.
(inside the Post Office)
- 19. Poor Boy Lloyd's**
201 Florida St.
387-2271
- 20. Coffee Star Cafe & Bakehouse**
226 Laurel St.
235-1445
- 21. Mortorano's Italian Deli**
301 Third St.
383-1282
- 22. Faye's Subs & Salads**
311 Third St.
343-0283

- 23. Avoyelles Cafe'**
333 Third St.
381-9385
- 24. China House**
431 Third St.
381-9132
- 25. La Salle Café**
North & Third St.
342-4468
- 26. Riverside Patty**
336 Third St.
387-5618
- 27. The Wine Loft**
358 Third St.
- 28. Harrington's Café**
329 Florida St.
343-2626
- 29. Subway**
One American Place
343-9444
- 30. Capital Corner Market & News Stand**
Galvez Garage
Fifth & Main St.
336-9730
- 31. Harvest**
5th & Main St.
383-0995

- 32. Taste**
5th & Main St.
334-9960
- 33. Charlie's Coffee**
5th & Main St.
343-8004
- 34. Serops Express**
Galvez Parking Garage
Fifth & Main St.
338-1211
- 35. Jambalaya Shoppe**
Galvez Parking Garage
Fifth & Main St.
387-3022
- 36. Rocket**
5th & Main St.
334-0460
- 37. Taylor Made Gourmet Food**
5th & Main St.
383-1612
- 38. Houndog's Bar & Grill**
668 Main St.
344-0807
- 39. Capitol Grocery Deli**
701 Spanish Town Rd.
387-2691

- 40. Capitol Bistro**
Casino Rouge Pavilion
1717 River Rd. North
381-7777
- 41. International Marketplace**
Casino Rouge Terminal
1717 River Rd. North
381-8722
- 42. Swirls**
Casino Rouge Pavilion
1717 River Rd. North
612-3077
- 43. The Grill**
Casino Rouge Pavilion
1717 River Rd. North
381-7777
- 44. Claiborne Café**
1201 N. Third St.
219-9769
- 45. House of Representatives Dining Hall**
Ground flr. of State Capitol

10ACWE Conference Location



Capitol Park Trolley Stops Monday - Friday • 10:30 am - 2:30 pm • Continuous Service • Free

- | | | | |
|----------------------------------|------------------------------------|--|------------------------------------|
| 1 Sheraton Hotel | 6 North Boulevard Shelter | 11 State Capitol | 16 State Museum |
| 2 South Blvd & St. Philip | 7 200 Block of Third Street | 12 Claiborne Building | 17 Main Street Market |
| 3 St. Louis & Mayflower | 8 300 Block Third Street | 13 First Circuit Court of Appeals | 18 Fourth & Main Streets |
| 4 River Center Garages | 9 400 Block of Third Street | 14 Poydras Building | 19 Fourth & Florida Streets |
| 5 Governmental Building | 10 LaSalle Building | 15 Livingston Building | 20 Riverfront Plaza |

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EXHIBITOR CONTACT INFORMATION

Dependable Glass

509 E. Gibson Street
P.O. Box 550
Covington, LA 70434
(800) 338-2414 phone
(800) 866-0986 fax
Website: www.dependableglass.com
Contact: Norman Foxworth
Email: sales@dependableglass

Exeter Hurricane Security Screen

726 Village Road #A
Kenner, LA 70065
(504) 415-7309 phone
(504) 468-2330 fax
Website: www.stormshield.net
Contact: Warren Green
Email: wgreen@bayouhosting.com

International Code Council

900 Montclair Road
Birmingham, AL 35213
(888) 422 7233 x5202 phone
(205) 599-9889 fax
Website: www.iccsafe.org
Contact: Andrea Lanier Papageorge
Email: apapageorge@iccsafe.org

Louisiana House

LSU AgCenter
Knapp Hall
Louisiana State University
Baton Rouge, LA 70894
(225) 578-4440 phone
(225) 578-4443 fax
Website: www.louisianahouse.org
Contact: Claudette Reichel
Email: creichel@agcenter.lsu.edu

Simpson Strong-Tie

2221 Country Lane
McKinney, TX 75069
(972) 439-3029 phone
(972) 542-4139 fax
Website: www.strongtie.com
Contact: Randy Shackelford
Email: rshackelford@strongtie.com

10ACWE Conference Contact Information

LSU Hurricane Center	Phone: +1 (225) 578-4813
Suite 3221 CEBA Building	Fax: +1 (225) 578-7646
Louisiana State University	
Baton Rouge, LA 70803	Email: 10ACWE@hurricane.lsu.edu
USA	Web: www.10ACWE.lsu.edu

CONFERENCE INFORMATION

This conference seeks to facilitate the exchange of the latest scientific and technical information between academics, researchers, engineering and architecture practitioners, and students on the many aspects of wind engineering.

This conference is convened by the American Association for Wind Engineering (AAWE). It is one of the three regional wind engineering conferences to be held in 2005, under the aegis of International Association for Wind Engineering (IAWE). It is the 10th conference in a series formerly known as the US National Conferences on Wind Engineering (until 1997), and most recently as the Americas Conference on Wind Engineering (Clemson, 2001). The conference is hosted by the LSU Hurricane Center at Louisiana State University.

This promises to be an exciting conference, with an excellent lineup of invited speakers, technical sessions, panel discussions, technical tours, and more. Conference highlights include

- 5 plenary session invited speakers
- 143 oral paper presentations in 35 sessions in three parallel tracks
- 6 special sessions/panels/forums
- 26 technical poster presentations in 2 sessions
- 12 short courses
- 3 technical tours
- Exhibitor booths
- And more

The conference is being held at the Sheraton Convention Center Hotel in Baton Rouge, Louisiana. This wonderful location is at the south end of the downtown area, which has been enjoying a renaissance in recent years. There are a number of restaurants, museums, a riverboat casino, and other attractions within easy walking distance of the hotel.

Baton Rouge is the Capital of Louisiana, with a metropolitan area population of one half million. It is located on the Mississippi River, about one-hour's drive northwest of New Orleans. The whole region is famous for its blues and jazz music scenes, its culinary delights, and nightlife.

CONFERENCE SOCIAL EVENTS

Ice Breaker Reception

Come get acquainted with your colleagues at this informal gathering Tuesday evening. The bar in the Bienville Room has a great view overlooking the Mississippi River.

Opening Reception

The Wednesday night reception will be held in the Atrium Lounge featuring hors d'oeuvres and a cash bar.

Awards Banquet

The conference awards banquet will be held in the atrium of the Sheraton Convention Center Hotel on Thursday night. The program will include the presentation of the distinguished service awards and the student thesis awards. The dinner speaker will be Dr. Kam-biu Liu, who will discuss his work "Hunting Prehistoric Hurricanes".

Alligator Bayou Cajun Dinner

Friday night is an authentic Cajun Dinner at nearby Alligator Bayou. Experience the culture of Southern Louisiana in a pristine natural setting including winding bayous, alligator swamps, and beautiful old-growth cypress trees. The evening features a swamp tour aboard a Louisiana 'party barge', a crawfish and jambalaya dinner, and music by a local Cajun band.

PLENARY SESSIONS

Opening Plenary Session, Wednesday, June 1

State-Of-The-Art Session on Hurricane Winds, Losses, and Mitigation

Uncertainty in Hurricane Wind Speeds

Dr. Mark Powell, NOAA Hurricane Research Division

The current state of the art in measuring and analyzing hurricane winds is reviewed. Current methods of wind measurement include land and marine surface observing platforms, satellites, and reconnaissance aircraft, and each method presents its own advantages and limitations. Real-time analysis of observations is accomplished with NOAA Hurricane Research Division (HRD) Real Time Hurricane Wind Analysis System, H*Wind, which is subject to both wind uncertainty and constraints of the H*Wind program. Information from Hurricane Andrew is reexamined with new capabilities and findings.

Dr. Mark Powell is an atmospheric scientist for NOAA's Hurricane Research Division (HRD), located at the Atlantic Oceanographic and Meteorological Laboratory (AOML) in Miami, Florida. At HRD he has been active in micro-scale and mesoscale studies, concentrating on boundary layer wind structure in landfalling hurricanes, hurricane rainband thermodynamics, development of standards for the measurement, and archival of surface winds. He is currently leading a project on real-time surface wind analysis, providing experimental wind field products to the National Hurricane Center. Dr. Powell received his Bachelor of Science from The Florida State University in 1975, his Master of Science from Penn State in 1978, the Ph.D. from Florida State in 1988, and the Certified Consulting Meteorologist designation from the American Meteorological Society in 1990.

Hurricane Loss Estimation Modeling

Dr. Larry Twisdale, Applied Research Associates

Hurricane loss modeling involves predictions of loss for both single storm events as well as estimates of losses from multiple storms over a period of time. Current models are presented, showing the dependence upon "implicit" approaches, developed by fitting aggregate loss data to estimates of wind speeds, and "explicit" approaches, which rely heavily on analysis of individual building characteristics. Research and data needs to improve hurricane loss estimation are also presented.

Dr. Lawrence Twisdale is an Executive Vice President and Chief Technical Officer of Applied Research Associates, Inc. He holds a B.S. and M.S. in Civil Engineering from North Carolina State University and a Ph.D. in Civil Engineering from the University of Illinois. He is a registered Professional Engineer in North Carolina and Florida. Dr. Twisdale started the Raleigh office of ARA in 1982, specializing in wind engineering, probabilistic methods, and structural optimization. He has performed several hundred wind engineering consulting and research projects and has been a key developer of ARA's hurricane loss estimation model. Dr. Twisdale was ARA's PI on the HAZUS hurricane model from 1997- 2000 and has been the Principal Investigator of ARA's wind mitigation work for the Florida's Residential Construction Mitigation Program since 1998.

Reducing Damage and Losses in Hurricanes: The Need for Barbarians and Bureaucrats

Dr. Timothy Reinhold, Institute for Building and Home Safety

Hurricanes pose one of the greatest threats to the United States, Japan, Australia and much of the developing world. In recent years, there has been a trend in the US towards reducing the loss of life in hurricanes; however, property damage and losses continue to escalate. Curbing the rate of growth in damage and losses requires aggressive measures on a number of fronts. This paper suggests some of the areas where both "barbarians and bureaucrats" may play a significant role in efforts to reduce damage and losses in hurricanes.

Dr. Timothy Reinhold earned BS, MS and Ph.D. degrees in Engineering Mechanics from Virginia Tech in 1973, 1975 and 1978, respectively. He began his professional career as a National Research Council Postdoctoral Associate at the National Institute for Standards and Technology in 1978 and later continued at NIST as a research structural engineer. Dr. Reinhold has conducted research on wind effects and structural capacity for most of his professional career. In addition to directing numerous studies for tall buildings and specialty structures, he has been deeply involved in research relating to the performance of housing and low buildings in hurricanes and other severe wind events. His work has involved model and full-scale laboratory studies as well as field studies. He has participated in studies of building performance in numerous hurricanes and chaired the organizing committee for the ASCE Conference on Hurricanes of 1992. He has served on the ASCE 7 and the SBCCI wind loads subcommittees and is a past member of the Board of Directors for the American Association for Wind Engineering.

Plenary Session, Thursday, June 2

Aerodynamic Studies for the Brazilian Wind Code

Dr. Joaquim Blessmann

Static aerodynamic studies carried out in Brazil since 1960 for their incorporation in the Brazilian wind code are presented. Both smooth uniform and shear turbulent flow were investigated to demonstrate the necessity of correct simulation of the main characteristics of natural winds. Isolated and pairs of models with flat, arched, and dome roofs were systematically studied for incorporation into the code, considering influences of parapets, eaves and closed ventilators.

Dr. Joaquim Blessmann is a professor emeritus at the Federal University of Rio Grande do Sul in Porto Alegre, Brazil. Professor Blessmann has authored 145 publications on structural theory and wind engineering, including eleven books with two to four editions each. He has nearly forty years of experience in wind engineering consulting and has been invited to give numerous lectures in Argentina, Brazil, Canada, Paraguay, Portugal, and Uruguay. He has been very active in the international wind engineering community, attending congresses in Argentina, Brazil, Canada, Chile, Japan, Poland, Portugal, Uruguay, and Venezuela. His work at the Building Aerodynamic Laboratory at the Federal University of Rio Grande do Sul has been incorporated into the Brazilian Wind Code.

Plenary Session, Thursday, June 2

State of the Art Review of Commercial Wind Engineering

Dr. Leighton Cochran

New developments in commercial wind engineering are presented with the intent of facilitating discussion among wind engineering practitioners and speculating on the future of the field. Areas of major advances and potential are presenting, including model construction, velocity and force measurement, wind energy, green buildings with operable facades, and meeting the needs of new clients and services.

Dr. Leighton Cochran is a Senior Associate at Cermak, Peterka, and Petersen, Inc. in Ft. Collins, Colorado. He has a broad range of experience in research and consulting studies of wind loads on buildings, pedestrian level winds, topographic effects, wind energy, and environmental studies. A native of Australia, Dr. Cochran obtained a BE from University of Queensland in 1979. After several years of consulting, he went back to school to obtain an MS at Colorado State University. That was followed by four years as Wind Tunnel Manager for Vipac Engineers and Scientists in Melbourne, Australia. He then returned to CSU to obtain his Ph.D. under Jack Cermak in 1992. He continued on at CSU as a Research Scientist and then joined CPP, where he has been for over 10 years.

SPECIAL SESSIONS/PANELS/FORUMS

The ICC/NSSA Storm Shelter Standard: Ultimate Wind?

Date: Wednesday, June 1, 2005

Time: 4:45 pm to 6:15 pm

This presentation will discuss the International Code Council (ICC) and National Storm Shelter Association (NSSA) development and draft provisions of the new "ICC/NSSA Standard for the Design and Construction of Storm Shelters". Topics include selection of wind speeds, approach to structural design for storm shelters, installation of shelters in existing homes, determination of debris missile speeds, and design for internal pressure.

Hurricanes of 2004 Damage Reports I & II

Date: Thursday, June 2, 2005

Time: 9:20 am to 10:25 am, 10:45 am to 12:15 pm

These presentations will present FEMA Mitigation Assessment Team (MAT) findings from recent hurricane investigations for 2004 Hurricanes Charley and Ivan, and a discussion of the performance of critical and essential facilities. MAT team recommendations from the damage investigations will also be presented.

Building a Safer Louisiana: What Should Be the Blueprint?

Date: Thursday, June 2, 2005

Time: 1:30 pm to 3:45 pm

This panel presentation will discuss insights obtained from recent hurricanes in Florida and information about Louisiana's vulnerabilities to major storms. These observations will serve as the basis for a panel discussion about what lessons can be learned from this information and how can they be applied to help reduce the hurricane vulnerability of buildings in Louisiana.

Panel on Wind Hazard Reduction Program

Date: Thursday, June 2, 2005

Time: 4:15 pm to 6:00 pm

This panel will provide a forum for discussion and input from the wind engineering community on research, outreach tasks and high priority focus areas for inclusion in the National Windstorm Impact Reduction Program (NWIRP), in the context of the goals and objectives stipulated by the National Windstorm Impact Reduction Act of 2004 and a report entitled "Wind Engineering Research and Outreach Plan to Reduce Losses Due to Wind Hazards," developed by AAWE in collaboration with ASCE and submitted to Congress in 2004.

The Wind Provisions of ASCE 7 - From 2002 to 2010

Date: Friday, June 3, 2005

Time: 10:45 am to 12:15 pm

This session will feature presentations on many of the changes that have been incorporated in the 2005 edition of ASCE 7. Following the presentation of changes, a moderated discussion will be held to solicit the audience's views on needed revisions to the standard for the 2010 edition and beyond.

TECHNICAL TOURS

Tours will depart from the hotel lobby at the north end of the Convention Center (near the hotel registration desk) at the start time indicated below. The shuttle busses will return by the end time shown.

LSU Wind Tunnel Laboratory and Louisiana House Tour

Dates & Times: Tuesday, May 31 (3:45 pm to 5:45 pm), Wednesday, June 1 (10:00 am to 12:00 pm),

Thursday, June 2 (3:45 pm to 6:00 pm)

Louisiana State University's main wind tunnel features a unique design with separate boundary layer and smooth flow sections. Other facilities include a portable wind tunnel for demonstrations and a high speed research-quality missile cannon for impact resistance testing. Recent projects include wind loads on industrial structures, hurricane shelter assessments, and debris aerodynamics, among others. The Louisiana House is an LSU AgCenter demonstration home featuring hurricane resistant construction techniques. The Louisiana House provides a research-based showcase of solutions and an educational outreach program to encourage sustainable development.

Wave Lab Tour

Date & Time: Wednesday, June 1 (4:45 pm to 5:45 pm)

This tour will involve demonstration of wave forms in tanks generated by different forcing directions and amplitudes. The lab is equipped with a shake table (six degrees of freedom) to study sloshing motions in tanks, capable of modeling tuned liquid dampers for suppression of vibration caused by along-wind and cross-wind forces.

Manufacturing of Hurricane/Impact Resistant Glass **

Date & Time: Tuesday, May 31 (10:20 am-3:30 pm)

This tour will provide information on manufacturing processes used to make hurricane and impact resistant glass and window systems. Dependable Glass Works, Inc of Covington, Louisiana uses a unique system with a 3-ply core of polyester based interlayers in their laminated glass products. One layer extends past the perimeter of the glass lites to allow mechanical fastening to a framework, in conjunction with a compatible structural adhesive. This patented method of attaching glass to the framework gives Safety Plus® Hurricane/Impact Resistant Glass its extreme unique performance characteristics. Transportation between Dependable Glass and the Sheraton Convention Center will be provided (approximately a 75-minute drive each way). Lunch will be provided at the Louisiana Grill restaurant in Mandeville. **** Note—separate registration fee required for this tour, see registration sheet.**

CONFERENCE SCHEDULE OVERVIEW

Tuesday May 31

	Track 1	Track 2	Track 3	Professional Track	Technical Tours
7:30-5:00	Registration				
8:15-10:15		T1. ASCE 7 Wind Loads I - Background and Basics Ted Stathopoulos	T3. Retrofit Techniques for Wind Mitigation of Existing Homes T. Eric Stafford		
10:15-10:30	Break				Manufacturing of Hurricane Resistant Glass Dependable Glass Works, Inc Covington, Louisiana Transportation and lunch provided
10:30-12:30		T1. ASCE 7 Wind Loads I - Background and Basics continued	T4. Guide to Wind Tunnel Testing for Practicing Engineers and Architects Leighton Cochran		
12:30-1:30	Lunch on your own				
1:30-3:30	T6. Bridge Aerodynamics and Vibration Mitigation Steve Cai	T2. ASCE 7 Wind Loads II - Provisions T. Eric Stafford	T5. Achieving Good High-Wind Performing Roof Systems--It can be done. Tom Smith		
3:30-3:45	Break				
3:45-5:45	T7. Wind Tunnel Test Techniques for Low-rise Structures and Large Roofs John Holmes	T2. ASCE 7 Wind Loads II - Provisions continued	T5. Achieving Good High-Wind Performing Roof Systems--It can be done. cont'd		LSU Wind Tunnel Laboratory and Louisiana House demonstration home for hurricane, wind, and flood resistant construction
6:00-8:30	Reception and Cash Bar, Bienville Room				

Note - shaded entries denote short courses with additional fees required. See registration information

Wednesday June 1

	Track 1	Track 2	Track 3	Professional Track	Technical Tours
7:30-5:00	Registration				
8:00-8:55	IAWE Regional Assembly Ahsan Kareem	W1. Wind and Hurricane Provisions of the International Building Code T. Eric Stafford		The 2004 Hurricane Test: An Assessment of Building Code Performance Richard Dixon	
9:00-9:55	AAWE General Membership Meeting			W3. Enhancing Extreme Wind Resistance Envelope Design by Utilizing Product Approvals Jimmy Buckner, P.E.	
10:00-10:55	AAWE Board Meeting		W4. Dynamic Response of Structures to Wind Ahsan Kareem	Wind Resistant Wood Frame Construction Randy Shackelford	LSU Wind Tunnel Laboratory and Louisiana House demonstration home for hurricane, wind, and flood resistant construction
11:00-11:55					
12:00-1:00	Lunch on your own				
1:00-1:20	OPENING PLENARY SESSION Welcome Opening Remarks - Conference Chairman, Marc Levitan				
	STATE-OF-THE ART SESSION ON HURRICANE WINDS, LOSSES, AND MITIGATION				
1:20-2:15	Uncertainty in Hurricane Wind Speeds - Dr. Mark Powell, NOAA Hurricane Research Division				
2:15-3:10	Hurricane Loss Estimation Modeling - Dr. Larry Twisdale, Applied Research Associates				
3:10-3:30	Break				
3:30-4:25	Reducing Damage and Losses in Hurricanes: The Need for Barbarians and Bureaucrats Dr. Timothy Reinhold, Institute for Business and Home Safety				
4:25-4:45	Break				
4:45-6:15	WIND I 2004 Hurricane Winds	DAMAGE I 2004 Hurricane Damage	LOW RISE BUILDINGS I	Professional Track The ICC/NSSA Storm Shelter Standard: Ultimate Wind?	Wave Lab Tour Shaketable - Mounted Wave Tank with Applications to Liquid Dampers
6:30-8:30	Reception and Cash Bar, Atrium Lounge				

Note - shaded entries denote short courses with additional fees required. See registration information

Thursday June 2

	Track 1	Track 2	Track 3	Professional Track	Technical Tours
7:30-5:00	Registration				
8:00-8:15 8:15-9:10 9:10-9:15	PLENARY SESSION - INTERNATIONAL WIND ENGINEERING Introduction, and International Perspectives on Wind Engineering - Dr. Ahsan Kareem Aerodynamic Studies for the Brazilian Wind Code - Prof. Joaquim Blessmann Conference Announcements				
9:20-10:25	WIND II Extratropical Winds	WIND ENERGY	BLUFF BODY AERODYNAMICS Cylinders	Hurricanes of 2004 Damage Report I: Charley	
10:25-10:45	Break				
10:45-12:15	WIND III Wind Climate	ANALYSIS TOOLS I Proper Orthogonal Decomposition	NON-BUILDING STRUCTURES I Open Structures, Walls,	Professional Track Hurricanes of 2004 Damage Report II: Ivan	
12:15-1:30	Lunch in Atrium				
1:30-2:00	POSTER SESSION I			Building a Safer Louisiana: What Should be the Blueprint? Panel	
2:00-3:45	WIND IV Tropical Winds	ANALYSIS TOOLS II Computer-Aided Wind Engineering	NON-BUILDING STRUCTURES II Loads and Wind-Induced		
3:45-4:15	Break				
4:15-6:00	WIND V Engineering Wind Parameters	DAMAGE II Hurricane Damage Investigations and Techniques	ENVIRONMENTAL WIND ENGINEERING	Panel Discussion on the National Windstorm Impact Reduction Program	LSU Wind Tunnel Laboratory and Louisiana House demonstration home for hurricane, wind, and flood resistant construction
6:30-7:30	Cash Bar in Atrium Lounge				
7:30-9:30	Conference Banquet AAWE Awards Speaker - Dr. Kam-biu Liu "Hunting Prehistoric Hurricanes"				

Friday June 3

	Track 1	Track 2	Track 3	Professional Track
7:30-4:30	Registration			
8:00-8:15 8:15-9:10 9:10-9:15	PLENARY SESSION - COMMERCIAL WIND ENGINEERING Introduction and Australian Perspectives on Wind Engineering - John Holmes State-of-the-Art Review of Commercial Wind Engineering - Dr. Leighton Cochran Conference Announcements			
9:20-10:25	STORM SHELTERS	WINDBORNE DEBRIS I	BRIDGE AERODYNAMICS I	PROFESSIONAL I Wind Analysis & Design Tools
10:25-10:45	Break			
10:45-12:15	WIND VI Models and Simulations	WINDBORNE DEBRIS II	BRIDGE AERODYNAMICS II	The Wind Provisions of ASCE7 - From 2002 to 2010 Jim Rossberg
12:15-1:30	Lunch in Atrium			
1:30-2:00	POSTER SESSION II			F1. BEYOND ASCE 7 What to do When Your Building or Structure is Not Covered by ASCE 7 John Holmes
2:00-3:45	WIND VII	STRUCTURAL RELIABILITY, DAMAGE MODELS, & MEASUREMENTS	BRIDGE AERODYNAMICS III	
3:45-4:00	Break			
4:00-5:45	RISK ANALYSIS I Vulnerability, Impacts, and Mitigation	TALL BUILDINGS I Serviceability, Motion, and Comfort	BRIDGE AERODYNAMICS IV	PROFESSIONAL II Hurricane Losses, Mitigation, and Shelters
6:15	Bus Departs from Sheraton for dinner			
7:00-11:30	Swamp Tour/Cajun Dinner at Alligator Bayou			

Saturday June 4

	Track 1	Track 2	Track 3
8:30-10:30	Registration		
8:30-10:00	RISK ANALYSIS II Storm and Windfield Models	TALL BUILDINGS II Dynamic Response and Interference	LOW-RISE BUILDINGS II Full-Scale Testing
10:00-10:20	Break		
10:20-12:05	RISK ANALYSIS III Hurricane Loss Models	TALL BUILDINGS III	LOW-RISE BUILDINGS III Wind Pressures
12:05	Conference Adjourns		
1:00	Depart for Optional Post-Conference Social Event in New Orleans		

PROFESSIONAL TRACK COURSES AND SESSIONS

Separate registration required for each course with (*), see registration sheet for details.
See page 18 for course descriptions.

TUESDAY, MAY 31

- ***Course T1** ASCE 7 Wind Loads I - Background and Basics (4 PDH)
- ***Course T2** ASCE 7 Wind Loads II – Application and Examples (4 PDH)
- ***Course T3** Retrofit Techniques for Wind Mitigation of Existing Homes (2 PDH)
- ***Course T4** Guide to Wind Tunnel Testing for Practicing Engineers and Architects (2PDH)
- ***Course T5** Achieving Good High-Wind Performing Roof Systems – It Can Be Done (4 PDH)
- ***Course T6** Bridge Aerodynamics and Vibration Mitigation (2 PDH)
- ***Course T7** Wind Tunnel Test Techniques for Low-rise Structures and Large Roofs (2 PDH)
- *TECHNICAL TOUR - Manufacturing of Hurricane/Impact Resistant Glass (1.5 PDH)
- TECHNICAL TOUR - LSU Wind Tunnel Laboratory and Louisiana House (1.5 PDH)

WEDNESDAY, JUNE 1

- ***Course W1** Wind and Hurricane Provisions of the International Building Code (4 PDH)
- The 2004 Hurricane Test: An Assessment for Upgrades to the Building Code (1 PDH)
- ***Course W3** Enhancing Extreme Wind Resistance Envelope Design by Utilizing Product Approvals (1 PDH)
- Wind Resistant Wood Frame Construction (1 PDH)
- ***Course W4** Dynamic Response of Structures to Wind (2 PDH)
- TECHNICAL TOUR - LSU Wind Tunnel Laboratory and Louisiana House (1.5 PDH)
- TECHNICAL TOUR - Wave Lab Tour (0.5 PDH)
- Opening Plenary Session on Hurricanes (3 PDH)
- The ICC/NSSA Storm Shelter Standard: Ultimate Wind? (1.5 PDH)

THURSDAY, JUNE 2

- Hurricanes of 2004 Damage Report I: Charley (1 PDH)
- Hurricanes of 2004 Damage Report II: Ivan (1.5 PDH)
- Building a Safer Louisiana - What Should be the Blueprint? (1.5 PDH)
- Panel on Wind Hazard Reduction Program (1.75 PDH)
- TECHNICAL TOUR - LSU Wind Tunnel Laboratory and Louisiana House (1.5 PDH)

FRIDAY JUNE 3

- Professional Paper Session I - Wind Analysis and Design Tools (1 PDH)
- The Wind Provisions of ASCE7 - From 2002 to 2010 (1.5 PDH)
- ***Course F1** Beyond ASCE 7: What to do When Your Building is Not Covered by ASCE 7 (2.25 PDH)
- Professional Paper Session II - Hurricane Losses, Mitigation, and Shelters (1.75 PDH)

CONFERENCE SCHEDULE

WEDNESDAY, JUNE 1, 2005

7:30-5:00		Registration	
Room	Ascension	East Baton Rouge	Iberville
8:00-8:55	IABWE Regional Assembly Ahsan Kareem	W1. Wind and Hurricane Provisions of the International Building Code T. Eric Stafford	The 2004 Hurricane Test: An Assessment of Building Code Performance Richard Dixon
9:00-9:55	AAWE Membership Meeting Marc Levitan		W3. Enhancing Extreme Wind Resistance Envelope Design by Utilizing Product Approvals Jimmy Buckner, P. E.
10:00-10:55	AAWE Board Meeting Marc Levitan		W4. Dynamic Response of Structures to Wind Ahsan Kareem
11:00-11:55			Wind Resistant Wood Frame Construction Randy Shackelford
12:00-1:00	Lunch on your own		
1:00-1:20	OPENING PLENARY SESSION Iberville Room Opening Remarks - Conference Chairman, Marc Levitan		
1:20-4:25	STATE-OF-THE ART SESSION ON HURRICANE WINDS, LOSSES, AND MITIGATION Moderator: Jon Peterka Uncertainty in Hurricane Wind Speeds - Dr. Mark Powell Hurricane Loss Estimation Modeling - Dr. Larry Twisdale Break Moderator Thomas L. Smith Reducing Damage and Losses in Hurricanes: the need for Barbarians and Bureaucrats - Dr. Timothy Reinhold		
Room	Ascension	East Baton Rouge	Iberville
4:45-6:15	WIND I 2004 Hurricane Winds Moderator: A. M. Lored-Souza	DAMAGE I 2004 Hurricane Damage Moderator: Lawrence A. Twisdale	LOW RISE BUILDINGS I Moderator: Ted Stathopoulos
	Hurricane Data Collection: FCMP Deployments During the 2004 Atlantic Hurricane Season Gurley, Masters, Prevatt, Reinhold	Damage Investigation of manufactured homes in Hurricane Charley Zhu, Bowles, Mehta	Application of Quasi-Steady Theory To Wind Load Prediction Zhou, Smith, Hu
6:30-8:30	Near-Ground Observations from Hurricanes Frances and Ivan (2004) Howard, Mullins	Case Study: Wind Damage to Commercial Building From Hurricane Charley French	Peak Wind Load Comparison: Theoretical Estimates and ASCE 7 Tieleman, Elsayed, Hajji
	Hurricane Winds at Landfall: 2004 Powell, Murillo, Reinhold, Gurley, Masters, The Effect of Hurricane Eyewall and Convective Features on Surface-Level Turbulence Masters, Reinhold, Gurley, Prevatt	Statistical Documentation Algorithm and Data Format Applied to Hurricanes Charley and Ivan He, Yin, Mehta, Chen Post 2004 Hurricane Field Survey - an Evaluation of the Relative Performance of Building Codes Gurley, Burton, Dixon, Ashworth, Reinhold	Uncertainties Associated with the Full-scale to Wind Tunnel Pressure Coefficient Extrapolation Long, Smith, Zhu, Gilliam Further investigation of the flow field around and within a cross-ventilated building using the SST k-w model Hu, Ohba, Kurebuchi
THE ICC/NSSA STORM SHELTER STANDARD: ULTIMATE WIND? Dave Bowman			
Opening Reception and Cash Bar in Atrium Lounge			

PLENARY SESSION - INTERNATIONAL WIND ENGINEERING Introduction and International Perspectives on Wind Engineering - Dr. Ahsan Kareem Aerodynamic Studies for the Brazilian Wind Code - Dr. Joaquim Blessmann			
Room	Ascension	East Baton Rouge	West Baton Rouge
8:00-9:15 Thursday	WIND II Extratropical Meteorology Moderator: Horia Hangan	WIND ENERGY Moderator: Dorothy A. Reed	BLUFF BODY AERODYNAMICS Cylinders Moderator: TBA
	Extreme Wind Events Observed in the 2002 Thunderstorm Outflow Experiment Gast, Schroeder	Design and Construction Considerations for Offshore Wind Turbine Foundations Malhotra	Forecasting lift and drag on a circular cylinder at Re=10 ⁶ using point pressure data and a fuzzy ARTMAP neural network Ferrer-Gener, Kopp, Giralt, Galsworthy
	Development of Sensor Networks to Document Regional Surface Wind Data Liang, Li, Gaus	A Novel Technique for Wind Speed Forecasting Using Grey Predictor El-Fouly, El-Saadany, Salama	Wind Tunnel Tests on Equal and Unequal Diameter Cylinders in Tandem Liu, Levitan, Narasimhan, Nikitopoulos
	Simulation of extreme winds from thunderstorm downbursts Chen, Leitchford	Potential wind power generation in the State of Kuwait Al-Nassar, Alhajraf, Al-Enezi, Al-Awadhi	Application of Immersed Boundary Method to Flow past a Oscillatory Circular Cylinder Lee, Lee, Kim, Yang
10:25-10:45 Break			
Room	Ascension	East Baton Rouge	West Baton Rouge
10:45-12:15 Thursday	WIND III Wind Climate Moderator: John L. Schroeder	ANALYSIS TOOLS I Proper Orthogonal Decomposition Moderator: John Holmes	NON-BUILDING STRUCTURES I Open Structures, Walls, and Fences Moderator: Dimitris Nikitopoulos
	Extreme Wind Speed Climatology in the United States Mid-West Leitchford, Ghosalkar	Wind Load and Its effects on Latticed Spatial Structures with Different Gaussian Curvatures: From Planar Trusses to Spherical Reticulated Shells Li, Tamura, Shen, Katsumara	Wind Tunnel Test on Partially Clad Buildings and Structures Hebert, Amoroso, Levitan
	Integration of Wind Tunnel Data with Full Scale Wind Climate Irwin, Garber, Ho	Some problems of proper orthogonal decomposition in application to reconstruction of wind pressure field for reticulated spherical domes Zhang, Tamura	Influence of Framework and Equipment Interaction on the Wind Loads for Open- Frame Structures Amoroso, Levitan
	Early 21st Century Hurricane Threats: Maximum Potential Intensity, the Atlantic Multidecadal Oscillation, Global Warming, and Chance Willoughby, Masters	A Physical Interpretation of the Dominant POD Mode for Full-Scale Pressure Fields Gilliam, Smith	A Comprehensive Look at Wind Loading on Freestanding Walls and Signs Fox, Levitan
Early 21st Century Hurricane Threats (cont'd)	Characterization of Evolving (Local) Pressure Fields on a Low-Rise Building Caracoglia, Jones	Wind Tunnel Testing of a Coal Pile Model of the CVRD - Vitória, Brazil, and the Effects Caused by Porous Fences Loredo-Souza, Schettini, Guimarães, Pimentel, Ignacio	
12:15-1:30 Lunch in Atrium			
1:30-2:00 Poster Session			HURRICANES OF 2004 DAMAGE REPORTS II Moderator: Tony Gibbs Hurricane Ivan Bill Coulbourne Performance of Critical and Essential Facilities Thomas L. Smith
1:30-2:00 Poster Session			HURRICANES OF 2004 DAMAGE REPORTS I Moderator: John Ingarciola Hurricane Charley Tim Reinhold
1:30-2:00 Poster Session			BUILDING A SAFER LOUISIANA: WHAT SHOULD BE THE BLUEPRINT?

Room	Ascension	East Baton Rouge	West Baton Rouge	Iberville		
Thursday 2:00-3:45	WIND IV Tropical Winds Moderator: Hugh E. Willoughby Satellites- For Meteorological Applications in the Indian Context <i>Yaragali, Tamura, Matsui</i> A Study Coupling Hurricane Wind Speed and Radar Observations <i>Schroeder, Edwards, Martinez</i> Using Mobile Research Radar to Extract Hurricane Boundary Layer Wind Information <i>Schroeder, Loruso, Beck, Weiss</i> WINDKAWN Brazil Storms and Extratropical Cyclones <i>Loreda-Souza, Paluch</i>	ANALYSIS TOOLS II Computer-Aided Wind Engineering Moderator: G. A. Kopp Multivariate Stochastic Simulation of Wind Pressure over Low-Rise Structures through Linear Model Interpolation <i>Masters, Gurley</i> Computation of Moment Coefficients on a Cubic Building Due to Tornado <i>Miller, Selvam, Rindan</i> LES analysis of the turbulent boundary layer flow over 2 dimensional hills <i>Cao, Tamura</i> Numerical Prediction of Flow Past and Loading on Bluff Body Using the Modified DES Model <i>Chung, Bienkiewicz</i> Application and Analysis of a Two-Layer Rough Wall, Near Wall Treatment for Bluff Body Aerodynamics <i>Unihale, James</i>	NON-BUILDING STRUCTURES II Loads and Wind-Induced Failures Moderator: Jon Galsworthy Wind-induced Oscillations of Cantilevered Traffic Signal Structures <i>Leitchford, Cruzado, Huang</i> Observations On Wind-induced Failures of Highway Light Poles <i>Caracoglia, Jones</i> Experimental Study of Wind Effects on Circular Stacks <i>Mitra, Chakraborty, Mazumdar, Bhattacharya</i> Attrition of Ground Weather Observations during Hurricane Landfall <i>Blessing, Masters</i> Infrastructure Failure Interactions <i>Reed, Chang, McDaniels, Peterson</i>	Professional Track (1:30-3:45) BUILDING A SAFER LOUISIANA: WHAT SHOULD BE THE BLUEPRINT? Moderator: Paul Coreil Florida's Building Code System, the Response to Hurricane Andrew <i>Richard Dixon</i> How Effective were Building Code Changes in Reducing Hurricane Damage <i>Tim Reinhold</i> Building Codes & State Hazard Mitigation Plan-Implications for FEMA Disaster Aid <i>Art Jones</i> Panel <i>Windell Currole</i> <i>Paula Pellerin Davis</i> <i>Jerry Jones</i> <i>Kenneth Jones</i> <i>Curt McCarty</i> <i>Mark Roberts</i>		
	3:45-4:15 Break					
	Thursday 4:15-6:00	WIND V Engineering Wind Parameters Moderator: Mark D. Powell Uncertainties in Flow Characteristics Developed From Full Scale Data <i>McElrath, Smith</i> Lateral Length Scales Measured in Land Falling Tropical Cyclones <i>Gurley, Aponje</i> Gust Factors Observed in Tropical Cyclone Landfalls <i>Masters, Reinhold, Gurley, Powell</i> Gust Factors: From Theoretical Considerations to Field Measurements <i>Masters, Gurley, Kareem</i> Evaluation of Integral Length Scales in Wind Tunnel Simulation and Field Study <i>Chen, Leitchford</i>	DAMAGE II Hurricane Damage Investigations and Techniques Moderator: David Henderson CFD Analysis of Wind Flow Impact on the Vehicle Assembly Building <i>Vu, Zysko</i> Internet-Based Building Damage Data Collection System <i>Liang, Gaus, Li</i> Windstorm Damage Surveys Using High-Resolution Satellite Images <i>Womble, Adams, Mehta</i> Hurricane Ivan in Grenada – Implications for Structural Engineering in the Caribbean <i>Gibbs</i> Hurricane Ivan in Grenada (cont'd)	ENVIRONMENTAL WIND ENGINEERING Moderator: Bob Meroney Validation of CFD Prediction of Cooling Tower Drift <i>Meroney</i> Plume dispersion on the roof of a building: Influence of rooftop structure geometry <i>Gupta, Saathoff, Stathopoulos</i> Fundamental Study on Formula for Predicting Convective Heat Transfer Coefficient above Heated Panels using Thermally Stratified Wind Tunnel <i>Kurita, Ohba</i> Wind Factors Influencing Spread and Suppression of a Forest Fire <i>Lee, Park, Lee, Kim</i> Pedestrian Level Wind Environment Around a Projected Building Complex in Neuquen, Argentina <i>Scarabino, Di Leo, Delhero, Bacchi, Colman, Boldea</i>	Professional Track NATIONAL WINDSTORM IMPACT REDUCTION PROGRAM Moderator: Bogusz Bienkiewicz Panel <i>John Gaynor</i> <i>Mark Powell</i> <i>Nicholas Jones</i> <i>Ahsan Kareem</i> <i>Timothy Reinhold</i> <i>James Rosenberg</i>	
		7:30-9:30 Conference Banquet				
		AAWA Awards Speaker - Dr. Kam-biu Liu, "Hunting Prehistoric Hurricanes"				

PLENARY SESSION - COMMERCIAL WIND ENGINEERING Introduction and Australian Perspectives on Wind Engineering - John Holmes State of the Art Review of Commercial Wind Engineering - Dr. Leighton Cochran											
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Friday 2:00-3:45 (continued)	Topographic Wind Speed-up and Directionality Factors for Use in the City and County of Honolulu Building Code <i>Chock, Peterka, Yu</i>	Modeling the reliability of a high set house subjected to cyclonic wind loading <i>Henderson, Ginger</i>	Vehicle loading prediction for roadways and bridges considering full interactions <i>Chen, Cai, Liu, Levitan</i>	SHORT COURSE F1 BEYOND ASCE 7 What to do When Your Building is Not Covered by ASCE 7 John Holmes (cont'd)
	A Laboratory Tornado Simulator: Comparison of Laboratory, Numerical and Full-Scale Measurements <i>Sarkar, Hean Jr., Gallus Jr., Le, Kardell, Wurman</i>	Reliability-Based Approach to Estimation of Load Factors for Rigid and Flexible Buildings <i>Diniz, Simiu</i>	A Systematic Finite Element-Based Buffering Formulation <i>Jeong, King, Isyumov</i>	
Friday 4:00-5:45	Comparison of Pressure Distribution on a Cubical Model in Boundary Layer and Tornado-Like Flow Winds <i>Mishra, James, Letchford</i>	A Probabilistic Windstorm Glass Damage Assessment Model <i>Kumar Jain, Khanduri</i>	Joint Time-frequency Analysis of Approach wind Velocity and Pressure on Bridge Pylons <i>Han, Lee, Kim, Kim, Kim, Kim</i>	SHORT COURSE F1 BEYOND ASCE 7 What to do When Your Building is Not Covered by ASCE 7 John Holmes (cont'd)
	Modeling and Simulation of Transient Winds: Downbursts/Hurricane <i>Wang, Kareem</i>	Wireless Pressure Sensing During Florida 2004 Hurricanes <i>Subramanian, Pinelli, Lapilli</i>	Large Suspension Bridges to Withstand Wind Loading <i>Borri, Costa, Majowicki, Salvatori</i>	
3:45-4:00 Break				
Room	Ascension	East Baton Rouge	West Baton Rouge	Iberville
	RISK ANALYSIS I Vulnerability, Impacts, and Mitigation Moderator: Siamak Daneshvaran	TALL BUILDINGS I Serviceability, Motion, and Comfort Moderator: K.C.S. Kwok	BRIDGE AERODYNAMICS IV Moderator: Steve Cai	PROFESSIONAL II Hurricane Losses, Mitigation, and Shelters Moderator: Forrest Masters
	Windstorm vulnerability of structures in Florida 2004: Have we seen an improvement since Hurricane Andrew struck in 1992? A reinsurer's perspective <i>Bove, Rauch</i>	On the Wind-Induced Response of Tall Buildings: The Effect of Uncertainties in Dynamic Properties and Human Comfort Thresholds <i>Bashor, Kijewski-Correa, Kareem</i>	Particle Image Velocimetry for Flow Visualization around Generic Bridge Shapes <i>Bosch, Kerényi</i>	Correlation of Losses from two concurrent hurricanes in the 2004 season <i>Young, Michel, LeGrone</i>
	The Effects of La Nina and El Nino on Tornado Outbreaks <i>Gilliam, Nagle</i>	Acceptability Curves Derived from Motion Simulator Investigations and Previous Experience with Building Motion <i>Burton, Hitchcock, Kwok, Roberts</i>	Observations of Vortex-Induced Vibrations on a Cable-Stayed Bridge <i>Mashhad, Ozkan, Jones</i>	The 2004 Hurricane Season - A Catastrophe Modeling Perspective <i>Khanduri, Pande</i>
	Spatial Dependencies in Wind-Related Housing Damage <i>DeSilva, Kruse, Wang</i>	Buildings Undergoing Complex Motions: Accelerations and Human Comfort <i>Kareem, Chen, Kijewski-Correa</i>	Computational and Experimental Investigation of Wind Load on Bridge with Split Decks on Single Pylon <i>Lee, Park, Kim, Kim, Lee, Cho, Cho</i>	Inclined Residential Concrete Roofs for Hurricane Protection <i>Bermudez</i>
	Wind Hazard Mitigation in Southeast Florida <i>Peacock, Kukadia, Dash</i>	Full-Scale Validation of the Wind-Induced Response of Tall Buildings: Updated Findings from the Chicago Monitoring Project <i>Kijewski-Correa, Kilpatrick, Kwon, Bashor, Young, Abdelaziz, Galsworthy, Morrish, Sinn, Baker, Isyumov, Kareem</i>		Development of a Performance-Based Design Approach and Related Loads for Facilities Designated as Essential During a Hurricane Event <i>Easley, Levitan</i>
	Transmission of Labor Market Shocks across Regions: Evidence from the May 3, 1999 Oklahoma City Tornado <i>Thompson, Ewing, Kruse</i>	Serviceability Criteria: A Review and Comparison with Recent Full-scale Measurements <i>Kilpatrick, Galsworthy, Isyumov</i>		Development and Application of a Method for Hurricane Shelter Assessments and Operational Planning <i>Gregg, Levitan</i>
Alligator Bayou Cajun Dinner Bus departs Sheraton at 6:15, Comfort Inn at 6:25				

SATURDAY, JUNE 4, 2005

Room	Iberville A	Iberville B	Iberville C
<p>Saturday 8:30-10:00</p>	<p>RISK ANALYSIS II Storm and Windfield Models Moderator: Michael A. Young</p>	<p>TALL BUILDINGS II Dynamic Response and Interference Moderator: TBA</p>	<p>LOW RISE BUILDINGS II Full-scale Testing Moderator: David O. Prevatt</p>
	<p>Effects of Hurricane Wind Models on Risk Assessment <i>Li, Ellingwood</i></p>	<p>Downburst induced dynamic responses of tall buildings <i>Kim, Ho, Hangan</i></p>	<p>Recent developments at the "Three Little Pigs" full-scale testing facility <i>Kopp, St. Pierre, Bartlett, Galsworthy, Hong, Incelet, Savory, Surry</i></p>
	<p>Typhoon Simulation Technique incorporating Sea-surface Temperature <i>Katsuchi, Yamada</i></p>	<p>Dynamic Response of structures to thunderstorm winds <i>Holmes, Forristall, McConochie</i></p>	<p>Mean Line Wind Pressure Coefficients on Surfaces of Gable-roofed Low-rise Buildings <i>Quan, Tamura, Matsui</i></p>
	<p>Tomado Risk Analysis in United States <i>Daneshvaran, Morden</i></p>	<p>Interference Effects on Tall Tower due to High Rise Buildings <i>Gupta</i></p>	<p>Torsional wind loads measured on a full-scale low-rise building <i>Hu, Smith</i></p>
	<p>Tomado Risk Analysis in United States (cont'd)</p>	<p>Interference Effect on Force and Moment Coefficients for Tall Buildings WITHDRAWN <i>Ahuja, Jain</i></p>	<p>C-130 Test on a Gable Roofed Manufactured Home <i>Zhu, Smith</i></p>
	<p>RISK ANALYSIS III Hurricane Loss Models Moderator: Sofia M.C. Diniz</p>	<p>TALL BUILDINGS III Moderator: Elizabeth C. English</p>	<p>LOW RISE BUILDINGS III Wind Pressures Moderator: Doug Smith</p>
	<p>Florida Public Hurricane Loss Projection Vulnerability Model: Implementation and Validation <i>Pirelli, Subramanian, Murphree, Gurfley, Hamid, Gulati</i></p>	<p>Evaluation Model for the 2nd Generation Wind-Excited Benchmark Building <i>Tse, Hitchcock, Kwok</i></p>	<p>Wind-induced Pressures and Internal Forces in Generic Low-rise Building <i>Endo, Bienkiewicz</i></p>
<p>Saturday 10:20-12:05</p>	<p>The 2004 Hurricane Season in Context: Potential Impact on Risk Modeling <i>Muir-Wood, Dong, Boissonnade, Jewson</i></p>	<p>Effect of Corner Balconies on Wind-Induced Response of Tall Buildings <i>Browne, Kumar</i></p>	<p>Wind Load on Components and Cladding Systems for Houses in Coastal Suburban Areas <i>Liu, Dearheart, Prevatt, Reinhold, Gurfley</i></p>
	<p>Drivers of Tree Failures in Hurricane Isabel and Implications for Insurance Risk <i>Beatty, Young, Boissonnade</i></p>	<p>Evaluation of Equivalent Static Wind Loads on Buildings <i>Chen, Kareem</i></p>	<p>Wall Area-averaged Pressure Coefficients Measured in Full-Scale <i>Bi, Smith</i></p>
	<p>Ensembles of Deterministic Footprints for Real Time Assessment of Hurricane Losses <i>VandePoll, Boissonnade, Muir-Wood</i></p>	<p>e-Analysis/Design of Tall Buildings Subjected to Wind loads <i>Kwon, Kijewski-Correa, Kareem</i></p>	<p>Mean Wind Pressures on Low-Rise Buildings with Canopies WITHDRAWN <i>Goyal, Ahuja</i></p>
	<p>Uncertainty in Real-time Hurricane Loss Estimation <i>Guin, Pande</i></p>	<p>Characteristics of Wind Loads of Typical Super-tall Buildings <i>Gu, Ye</i></p>	

POSTER SESSION SCHEDULE

THURSDAY

POSTER SESSION I	
Wind Characteristic of the State of Kuwait	The Effect of Wind Load on the Stability of a Container Crane
<i>Alenezi, Al-Awadi, Alhajraf, Al-Nassar</i>	<i>Lee, Han, Shim, Kim, Han</i>
Effect of boundary layer characteristics on wind ripples	The Capacity Paradox
<i>Alhajraf, Al-Nassar, Ramadan, Alenezi, Alalanzazi</i>	<i>Reed</i>
A Summary of the Wind Engineering Mobile Instrumented Tower Experiment During the 2004 Atlantic Hurricane Season	Experimental Determination of the Drag Coefficients and Strouhal Numbers of a Port Crane Boom Girder Section
<i>Edwards, Schroeder</i>	<i>Scarabino, Maranon Di Leo, Bacchi</i>
Introduction to a model on development based on Monte Carlo method: Application to a farm's pollutants dispersion	Projecting Changes in the Hurricane Risk of Residential Wood Frame Structures in North Carolina
<i>Lorens, Sanchez, Berbagal, Verdu</i>	<i>Kumar, Jain, Davidson</i>
Quantification of Gust Response of Low-rise Building Pressures using an Active Gust Generation Technique	Assessing Vulnerability of Industrial Structures: Development of Damage Functions
<i>Haan Jr., Sarkar</i>	<i>Hilli, Levitan</i>
External Pressure Coefficients for Sawtooth and Monosloped Roofs	Variation of wind velocity over falling sand dunes
<i>Prevatt, Cui, Kopp, Gabby, Dukes</i>	<i>Alenezi, Alhajraf, Al-Nassar</i>

FRIDAY

POSTER SESSION II	
Wind Engineering and Trees	Separated Shear Layer Investigations using Discrete Vortex Methods with Experimental Validation
<i>Liang, Gaus</i>	<i>Murgai, Haan Jr.</i>
Variability of External Pressure Coefficients with Terrain Roughness on Low-Rise Buildings	3 Representative Case Studies of the South Plains Low Level Jet
<i>Gardner, Prevatt, Reinhold, Liu, Dearheart</i>	<i>Giammanco, Peterson</i>
The Prediction of Overall Structural Wind Loads on Tall Buildings: An Assessment of the Current State-of-the-Art	Probabilistic description of tall building response to wind: Database-assisted design, dynamics, and wind directionality effects
<i>Kilpatrick, Gaisworthy, Isyumov</i>	<i>Fritz, Simiu</i>
Wind Response Analysis of Tall Framed Buildings	Incorporation of Structural Design for Hurricanes into Senior Design Courses of Civil Engineering Program at TAMUK
<i>Prasad, Singh</i>	<i>Leelani</i>
Comparison Of Predicted Value Of Maximum Height For Tall Square Buildings Subjected To Peak Wind Loads At Different Terrains	Pressure-Velocity Correlation Study on 1:50 Geometrical Scale Model of the TTU Building
<i>Mitra, Mazumdar, Bhattacharya</i>	<i>Kumar, Nikitopoulos, Levitan</i>
Wind Loading Effects on Parapet Effects on Roof Top Pressures	Hysteresis Behavior in Liquid Dampers
<i>Smith, Wiese</i>	<i>Peng, Frandsen</i>
Influence of Relative Dimensions and Arrangement of Buildings on Wind Environment Around Buildings	Numerical Modeling of Free-Surface Flows using a Mesoscopic Approach
<i>Ahuja, Dalui, Gupta</i>	<i>Tubbs, Frandsen</i>

COURSE DESCRIPTIONS

TUESDAY MAY 31

ASCE 7 Wind Loads I - Background and Basics

Course T1. 8:15 am-12:30 pm (4 PDH)

Ted Stathopoulos, Ph.D.

Many difficulties in understanding and using the ASCE 7 wind load provisions arise from lacking the background and basics of wind engineering and building aerodynamics, particularly in the area of wind-structure interaction. This workshop intends to address and present in simple terms the fundamentals and basic concepts of wind loading in order to assist the practicing engineer and architect to understand the ASCE 7 wind load provisions and their background. In this way the provisions will be applied properly for the appropriate design of buildings and other structures against wind. The Workshop will address the following topics and include a question and answer period:

- Wind speeds, turbulence and wind climate
- Exposure of buildings
- Building aerodynamics
- Pressure coefficients
- Component and cladding loads
- MWFRS loads
- Internal pressures
- Architectural features (eaves, parapets etc)

ASCE 7 Wind Loads II – Application and Examples (4 PDH)

Course T2. 1:30 -5:45 pm (4 PDH)

T. Eric Stafford, P.E.

This presentation will address the determination and application of the wind provisions of ASCE 7. Specific issues to be discussed include the topics listed below. In addition an overview of the significant changes from ASCE 7-98 to ASCE 7-02 will be provided.

- Simplified Method
- Analytical Procedures
- Basic Wind Speeds
- Surface Roughness and Exposure Categories
- Load Combinations
- Example Problems

Retrofit Techniques for Wind Mitigation of Existing Homes (2 PDH)

Course T3. 8:15 am-10:15 am (2 PDH)

T. Eric Stafford, P.E.

This presentation is part of the Blueprint for Safety Program. It provides an in-depth instruction to affordable disaster-resistant building techniques for existing homes. Specific retrofit techniques discussed include:

- Strengthening the Roof
- Protecting Openings
- Connecting the Roof to Exterior Walls
- Bracing Gable End Walls

Guide to Wind Tunnel Testing for Practicing Engineers and Architects

Course T4. 10:30 am-12:30 pm (2 PDH)

Leighton Cochran, Ph.D., C.P.Eng

This two-hour presentation and discussion will give the consulting engineer, architect and developer a detailed outline of what wind-tunnel testing can do for a new project and when the consideration of architectural aerodynamics is appropriate. Since projects ranging from skyscrapers to single-story homes may be tested for structural loads, cladding pressures and the assessment of ambient pedestrian-level wind speeds it is appropriate for the consulting engineer to know the right questions to ask in assessing the usefulness of placing a new development in the wind tunnel. Issues like 'At what point in the design process is such a study valuable?', 'How long does it take, and how are the results used upon completion?', 'Do only buildings in hurricane-prone areas need to be wind-tunnel tested?', 'Is there a financial incentive to perform a site-specific, building-specific wind-tunnel study?' will be discussed in a ninety-minute presentation followed by about thirty-minutes of discussion and questions about specific concerns from attendees.

Achieving Good High-Wind Performing Roof Systems – It Can Be Done

Course T5. 1:30 pm-5:45 pm (4 PDH)

Tom Smith, AIA, RRC

This presentation is intended for architects, engineers and roof consultants. It will also be of interest to major building owners, contractors and roofing materials manufacturers. The following topics will be addressed:

- Correlating design uplift loads with test data
- Key elements of various low-slope systems
- Key elements of asphalt shingles and tiles
- Anchoring rooftop equipment
- Special considerations for critical/essential facilities
- Special considerations when re-roofing
- Key elements of drawings and specifications
- Key elements of construction contract administration

Bridge Aerodynamics and Vibration Mitigation

Course T6. 1:30 -3:30 pm (2 PDH)

Steve Cai, Ph.D., PE

This session is intended to provide a general overview of bridge aerodynamics, the types of problems encountered, and mitigation options. It is geared towards practicing engineers, graduate students, and others with knowledge of structural engineering, who do not necessarily have a background in wind engineering and/or bridge aerodynamics. Information provided will facilitate communication between the practicing engineers and wind experts on current or future projects.

First, the basics of wind-induced bridge/cable vibration problems will be introduced. Then, design countermeasures for new bridge designs and mitigation methods for existing bridges will be presented. The roles as a structural engineer in long-span bridge design will be discussed. Case studies of a new bridge design and existing bridge rehabilitation will be included. Finally, new developments in this area will be briefed.

Wind Tunnel Test Techniques for Low-rise Structures and Large Roofs

Course T7. 3:45 -5:45 pm (2 PDH)

John Holmes, Ph.D., C.P.Eng

The two-hour lecture will cover the basic scaling rules for wind-tunnel studies of external and internal wind pressures on low-rise buildings, and for large roofs on sports stadia etc. State-of-the art techniques for deriving effective static design wind loads from pressure measurements will be covered, and methods of calculating and incorporating resonant response discussed. The scaling rules for internal pressure simulation and the frequency response of pressure measurement systems will be addressed. Some mathematics is included...

The course is intended for graduate students and younger wind-tunnel practitioners with some experience in wind engineering. Practicing structural designers of large roofs may find also it useful to understand the possibilities of wind-tunnels in optimizing the structural design of large roofs for wind forces.

WEDNESDAY JUNE 1

Wind and Hurricane Provisions of the International Building Code

Course W1. 8:00 am-12:00 noon (4 PDH)

T. Eric Stafford, P.E.

This presentation will give an overview of the wind provisions of the 2000 IBC. Specific issues addressed include Basic Wind Speed, Exposure Categories, Simplified Procedure for Low-rise Buildings, Load Combinations, Material and Assembly Specific Testing Requirements, and Example Problems. An overview of the significant changes from the 2000 IBC to the 2003 IBC will also be given.

The 2004 Hurricane Test: An Assessment for Upgrades to the Building Code**

8:00 - 9:00 am (1 PDH)

Richard Dixon, P.E., CBO

** No charge for this session with any other course or conference registration

Building code requirements for hurricane protection have improved significantly in the past decade. The hurricanes of 2004 provided the first real world tests of how effective these improvements are in mitigating damage. Post hurricane assessments indicate significant improvement in structural performance but point to problems with certain components and cladding and water intrusion. Mr. Dixon is a Florida registered professional engineer and certified building official and serves as Executive Director to the Florida Building Commission. He has worked in building product and building code standards development and administration for 30 years.

Enhancing Extreme Wind Resistance Envelope Design by Utilizing Product Approvals

Course W3. 9:00-10:00 am (1 PDH)

James L. "Jimmy" Buckner, P.E.

Four Hurricanes in six weeks, affecting the majority of Florida provided full scale testing on building envelopes. Buildings designed to new codes with tested product approvals performed very well. The Florida and International Building Code requires testing and/or documentation to show compliance to code standards. Permit requirements call for the applicant to demonstrate that roof and wall products can resist the wind design loads per ASCE 7. This course will provide a basic knowledge of key wind resistant engineering data in product approvals. Handouts will provide guidance on where to find this information, examples of approvals and other resources.

- Purposes of Product Approval
- Increasing Wind Code & Wind Insurance Requirements
- Third Party Pressure Resistance Testing & Evaluations
- Third Party Quality Assurance
- Key Engineering Performance Data in Reports & Limits of Use
- Extrapolation (& limits) to demonstrate code compliance
- Where to find Approvals & Additional Product Information
- Questions & Discussion

Dynamic Response of Structures to Wind

Course W4. 10:00 am-12:00 noon (2 PDH)

Ahsan Kareem, Ph.D.

This course provides an introduction and overview to the wind-induced dynamic response of structures. It covers the following topics:

- Dynamic analysis: a primer
 - Natural frequencies, Damping, Modal analysis
- Introduction to wind-induced response
- Dynamic wind load effects on structures
 - Gust loading factors, Wind tunnel testing, Simulation of flows, Pressure models, High-frequency models, Aeroelastic models, Aerodynamic databases, Equivalent static wind loads, Synthesis of loads and wind climate
- ASCE 7 /International Codes
- Human comfort in tall buildings
- Damping devices

Wind Resistant Wood Frame Construction**

Wednesday 10:00 am-11:00 noon (1 PDH)

Randy Shackleford, P.E.

** No charge for this session with any other course or conference registration

The session will focus on methods of constructing wood framed buildings to resist wind forces. The resistance to both uplift and lateral forces using a continuous load path will be discussed. Specific trouble areas will be identified and solutions covered.

FRIDAY JUNE 3

Beyond ASCE 7: What to do When Your Building or Structure is Not Covered by ASCE 7

Course F1. 1:30 - 3:45 pm (2.25 PDH)

John Holmes, Ph.D., C.P.Eng

This short course is intended for practicing building design professionals. It describes the options available for cases when building shapes or geometries are not available to calculate wind loads in ASCE-7. The options include foreign codes and standards, and special wind tunnel-tests.

ABOUT THE COURSE PRESENTERS

James L. "Jimmy" Buckner, P.E.

President, C-Buck Engineering

Jimmy Buckner is a graduate of Clemson University, BSCE and President of C-Buck Engineering in West Palm Beach, Florida. His experience includes over thirty years in the design, construction and product testing/evaluation of building covering systems in the southeastern United States and the Caribbean. Awards include "1981 Engineer of the Year in Construction" by thirty Atlanta engineering societies. He is active in Florida's developing Product Approval System. C-Buck Engineering focuses on Roofing and Covering Products, specifically turn-key product approval services and site-specific design for local permits. He is a Miami Dade approved test engineer and is a member of ASCE / SEI, ICC, AAWE, & RCI.

Steve C.S. Cai, PhD, P.E.

Assistant Professor of Civil and Environmental Engineering

Louisiana State University

Dr. Cai's expertise is in the areas of bridge engineering, bridge aerodynamics, concrete and composite design and construction, and other aspects of bridge analysis and design. He has authored and co-authored dozens of papers and has developed a very strong research program on these topics at Louisiana State University, where he currently serves as an Assistant Professor of Civil and Environmental Engineering. His professional engineering experience prior to joining academia includes an Eisenhower Fellowship with FHWA researching bridge aerodynamics, three years with Michael Baker Jr., Inc. in complex bridge design and four years with Florida DOT in R&D. His professional service work includes appointment as Secretary/Treasurer for AAWE and for 10ACWE, and membership in several ASCE, ACI, and TRB national technical committees

Leighton Cochran, PhD, CPEng.

Senior Associate, CPP Inc

Dr. Leighton Cochran is a Senior Associate at Cermak, Peterka, and Petersen, Inc., Wind Engineering and Airflow Consultants. He has a broad range of experience in research and consulting studies of wind loads on buildings, pedestrian level winds, topographic effects, wind energy, and environmental studies. His previous experience includes four years as Wind Tunnel Manager for Vipac Engineers and Scientists in Melbourne, Australia, and time as a Research Scientist at Colorado State University. Dr. Cochran is very active in the profession, participating in numerous professional engineering societies and technical committees. This includes chairing the Wind Effects Booklet Task Committee for the

ASCE Wind Effects Committee, and serving as Secretary of the ASCE Aerodynamics Committee. He is also active in other several other committees related to wind engineering. He has one book chapter and 14 peer-reviewed journal articles in print, over 30 conference papers, and hundreds of technical reports. He has organized and moderated numerous conference sessions and is becoming a sought after speaker himself. Dr. Cochran has provided several invited/keynote lectures at recent international meetings, on the topic of new developments in commercial wind engineering.

Richard Dixon, P.E., CBO

Executive Director, Florida Building Commission

Mr. Dixon is a Florida registered professional engineer and certified building official and serves as Executive Director to the Florida Building Commission. Prior to his current position he served in various management positions at the Florida Department of Community Affairs directing Florida's Energy, Accessibility and Radon Codes and Standards Programs. Mr. Dixon has worked in building product and building code standards development and administration over the past 30 years beginning with testing standards development while working at the University of Florida to development of the Florida Building Code as staff to the Florida Building Commission.

John Holmes, Ph.D., C.P.Eng

Director, JDH Consulting

Dr. John D. Holmes has been engaged in research, testing and consulting in wind loads and wind effects for over 30 years. He was actively involved in the writing of Australian Standards AS1170.2-1989, AS/NZS1170.2:2002 (Wind loads) and AS3995-1994 (Design of steel lattice towers and masts). He is the author or co-author of some 300 journal papers, conference presentations, and research and consulting reports, and the strong selling book: "Wind Loading of Structures", published by Spon Press of London in 2001. He has been a consultant for, or carried out collaborative research with, many companies and organizations worldwide. He was awarded a Fulbright Senior Fellowship in 1989, the Warren Medal by the Institution of Engineers in 1990, and a Senior Fellowship by the Japan Society for Promotion of Science in 1996. He is a Fellow of the Institution of Engineers, Australia. He is currently also Regional Coordinator, Asia-Pacific, and Convenor of Workshops on Codification, for the International Association of Wind Engineering. As a consultant, he has also been involved in the determination of design wind loads for many major structures including : West Gate Bridge, Melbourne; Citycorp Building, New York; Stadium Australia, Sydney; My Thuan Bridge, Vietnam; Colonial Stadium, Melbourne; Baram Bridge, Malaysia; Macau Tower, China; Wembley Stadium, London, Chevron Redevelopment, Gold Coast, Australia.

Dr. Ahsan Kareem

Robert M. Moran Professor of Civil Engineering and Geological Sciences, University of Notre Dame

Dr. Ahsan Kareem is one of the leading authorities on wind-induced dynamics of buildings and structures. His work forms much of the basis for the dynamic response provisions of ASCE 7, a committee on which he has long served. His distinguished career includes significant contributions in many areas of wind engineering, structural dynamics, damping systems, offshore mechanics, probabilistic mechanics, full-scale monitoring, and translating his research findings into codes and standards. A few of the many highlights from his career include being the recipient of the 2002 ASCE Jack E. Cermak Medal for outstanding contributions to wind engineering, serving as the President of AAWE, and chairing the 6th US National Conference on Wind Engineering, the ASCE Specialty Conference on Hurricane Alicia, and the ASCE Specialty Conference on Probabilistic Mechanics and Structural Reliability. He currently directs the NatHaz Modeling Laboratory at Notre Dame

Randy Shackelford, P.E.

Simpson Strong Tie

He has worked as a Research Engineer and Code Specialist for Simpson Strong-Tie Co. since 1994. In that position, he provides technical assistance and training on building codes, wind and earthquake resistant construction, and the use of Simpson Strong-Tie connectors to builders, designers, consumers, and building officials throughout the country. Prior to joining Simpson, Randy was Chief Engineer of the Windstorm Inspection Department of the Texas Department of Insurance.

Thomas L. Smith, AIA, RRC
President, TSmith Consulting Inc.

Thomas L Smith is president of TSmith Consulting Inc. He specializes in architectural technology and research, with an emphasis on roof systems. Smith is a licensed architect and a registered roof consultant. In particular, he is recognized for his expertise related to wind performance of roof systems. Mr. Smith has been a member of the committee that is responsible for ASCE 7, *Minimum Design Loads for Buildings and Other Structures* since 1990. He has performed building performance research following ten hurricanes and several tornadoes. He authored *Low-Slope Roofing II*, published by the National Council of Architectural Registration Boards (2001), and he was contributing author of the following publications: *Design Guide for Improving School Safety in Earthquakes, Floods, and High Winds*, FEMA 424 (2004), *Coastal Construction Manual: Principles and Practices of Planning, Siting, Designing, Constructing, and Maintaining Residential Buildings in Coastal Areas, Third Edition*, FEMA 55 (2000) and *Buildings at Risk: Wind Design Basics for Practicing Architects*, AIA (1997). Previous positions include serving as Research Director for the National Roofing Contractors Association (NRCA) and private practice in California and Alaska. He has designed roofs from the arctic to the tropics.

T. Eric Stafford, PE
President, T. Eric Stafford & Associates

T. Eric Stafford is a registered professional engineer specializing in wind hazard mitigation and code development activities. He is currently President of T. Eric Stafford & Associates and serves as a building code consultant for the Federal Alliance for Safe Homes and the Institute for Building and Home Safety. He previously served as Vice President/ Technical Services for the Federal Alliance for Safe Homes (FLASH). He has a Bachelor Civil Engineering and a Master of Science (Structural emphasis). Eric is a member of the ASCE 7 Task Committee on Wind Loads, the ASCE Standards Committee on Minimum Design Loads, member of the National Hurricane Conference Planning Committee, Chairman of the National Hurricane Conference Engineering Topic Committee, Former Staff Liaison to the SBCCI Wind Load Committee, and former Staff Liaison to the International Building Code Structural Code Development Committee. Eric is a national lecturer on the wind provisions of the International Building Code and ASCE 7. Prior to joining FLASH, he was Manager of Codes for the International Code Council and Director/Code Development for the Southern Building Code Congress

Ted Stathopoulos, PhD
Professor of Building, Civil and Environmental Engineering, Concordia University,

Dr. Ted Stathopoulos is currently Professor at the Department of Building, Civil and Environmental Engineering and Associate Dean of the School of Graduate Studies of Concordia University in Montreal, Canada. His research in the area of wind effects on buildings and their codification has been influential in the development of codes and standards around the world. He has an extensive publication record with 125 articles in refereed journals. He received the Best Paper Award for the paper entitled "Wind-Tunnel Studies of Buildings and Structures" published in the ASCE Journal of Aerospace Engineering in 1996. He has been honored by the American Association for Wind Engineering and he received the 1997 Engineering Award of the National Hurricane Conference for his "exhaustive studies leading to the adoption of the new *ASCE-7 Minimum Design Loads for Buildings and Other Structures* which is already leading to safer, more hurricane-resistant construction in many areas". He serves on the ASCE Standards Committee of Minimum Design Loads of Buildings and Other Structures and chairs the Wind Effects Committee of the Structural Engineering Institute of ASCE. He is a member of ASHRAE Technical Committee 4.3 on Infiltration Requirements and Ventilation. He is a professional engineer registered in Québec, Ontario and in Greece; he is a Fellow of the Canadian Academy of Engineering and a Fellow of the American Society of Civil Engineers.

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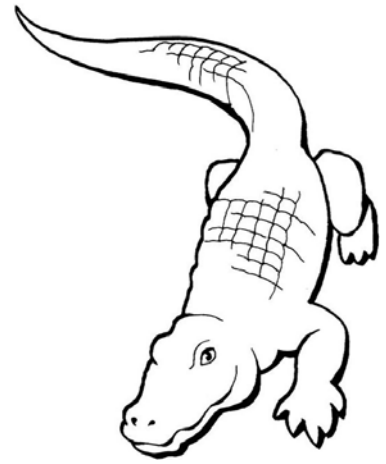
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AERODYNAMICS
 BRIDGE
 CHARLEY
 DOWNBURST
 EVACUATION
 GALLOPING
 HURRICANE
 IVAN
 MEASUREMENTS
 MOBILE DOPPLER RADAR
 PEDESTRIAN LEVEL WIND
 STORM SHELTER
 TALL BUILDINGS
 TUNED MASS DAMPERS
 VORTEX SHEDDING
 WIND TUNNEL

AEROELASTIC
 BUILDING CODE
 COMPUTATIONAL FLUID DYNAMICS
 DRAG
 EXTRATROPICAL
 GLOBAL WARMING
 IMPACT RESISTANT GLASS
 JEANNE
 METEOROLOGY
 MULTIDECADAL OSCILLATION
 REMOTE SENSING
 STORM SHUTTERS
 TORNADO
 TURBULENCE
 WIND
 WIND TURBINE

BOUNDARY LAYER
 BUILDING ENVELOPE
 DATA
 DYNAMICS
 FRANCES
 GUST FACTOR
 INTERNAL PRESSURE
 LOW RISE
 MITIGATION
 MULTIVARIATE STOCHASTIC SIMULATION
 ROUGHNESS
 TALL BUILDING
 TRAFFIC SIGNAL
 UPLIFT
 WIND BORN DEBRIS

BATON ROUGE LAGNIAPPE



STATISTICS

- Baton Rouge is the Capitol of Louisiana
- Population: 600,000, Louisiana's second most populous city
- One of the largest cities on the Mississippi River
- Average summer temperature: 81.3 F (27.4 C)
- Average winter temperature: 52.5 F (11.4 C)
- Major Universities: Louisiana State University, Southern University

INTERESTING LOCAL FACTS

- Tiger stadium (at LSU), also known as "Death Valley", has been the site of an actual earthquake. Thousands of cheering fans rocked the stadium so hard the movement was actually recorded on a Richter Scale.
- The Port of Greater Baton Rouge is second nationally in grain handling operations, and is the farthest inland deep-water port in the Gulf of Mexico.
- The Indian Mounds on the campus of Louisiana State University were constructed 450 years before the first Egyptian Pyramid was built.
- The largest historically black university in the United States is Southern University in Baton Rouge
- The oldest HMO in the nation was started in Baton Rouge in 1924 by Standard Oil (now Exxon)
- The Louisiana State Capitol is the tallest in the nation at 34 stories and 450 ft (137 m) high

SOME LOCAL TERMS

- Bayou—a sluggish stream bigger than a creek and smaller than a river
- Crawfish—a small freshwater crustacean related to the lobster.
- C'est la vie—"That's life"
- Creole—a white person descended from French and Spanish Settlers or a person of mixed European and African blood.
- Gumbo—Thick, savory soup with chicken, seafood, sausage, or wild game
- Jambalaya—Highly seasoned mixture of any of several combinations of seafood, meat, poultry, sausage, and vegetables, simmered with raw rice until the liquid is absorbed
- Laissez les bons temps rouler—"Let the good times roll"
- Zydeco—lively variant of Cajun music
- Lagniappe—"A little something extra"

CONFERENCE AND REGISTRATION INFORMATION

Full Registration includes the printed book of extended abstracts, full proceedings on CD-ROM, discounted registration rates for short courses, and tickets for all conference meals (Wednesday evening icebreaker reception, Thursday lunch, Thursday dinner and Awards Banquet, and Friday evening Cajun/Zydeco swamp tour and dinner at Alligator Bayou).

One-Day Registration includes the printed book of extended abstracts, full proceedings on CD-ROM, and discounted registration rates for short courses. Conference meals are not included, but tickets can be purchased.

Short Courses are available on a number of technical topics including background and application of wind load provisions, design of roofs for wind resistance, retrofit techniques for wind resistance, specifying hurricane resistant products, bridge aerodynamics, wind tunnel test techniques and applications, and wind-induced structural dynamics.

Technical Tours. A tour of a hurricane resistant glass manufacturing facility is available on May 31 (extra ticket required – see registration form). Tours to the LSU Wind Tunnel Laboratory and the Louisiana House (LSU demonstration home featuring hurricane resistant construction techniques) are scheduled for several times during the conference, available at no charge to all registrants.

Companion Tours

Thursday June 2, 10:30 am – 2:30 pm

Tour of Nottoway Plantation, one of the largest and most elaborate antebellum plantation houses in the south, including lunch at the plantation restaurant.

Friday June 3, 10:00 am – 3:00 pm

Tour of the LSU Rural Life Museum with its extensive collection of tools, utensils, furniture, and farming equipment. The museum preserves and interprets an important part of the state's and nation's rural heritage. It also serves as a research facility for LSU students engaged in heritage conservation studies. This will be followed by lunch at the LSU Faculty Club, and a tour of the beautiful LSU campus.

Post-conference Tour in New Orleans

Saturday June 4 and Sunday June 5

The group will leave Baton Rouge by bus at 1:00 PM on Saturday for the post conference tour to the Big Easy...New Orleans! The trip to New Orleans will be narrated and we will make a visit to the Mississippi River levees. Reaching New Orleans around 4:00 PM, you will have time to settle in your hotel and get ready to board the authentic Steamboat 'Natchez' at 6:00 PM for a Jazz/Dinner Cruise. You will enjoy a casual dinner buffet all while listening to live jazz by the world renowned 'Dukes of Dixieland'. The boat will be back in the harbor by 9:00 PM after which you will have time to savor the French Quarter on your own. Sunday morning we will meet at 9:00 am for a 1½ hour guided walking tour to explore the storied streets of the 'Vieux Carre' (French Quarter), where legend and documented history converge. Discover everything from the outrageous colonial history to Creole culture, from piracy to architectural masterpieces, enjoying New Orleans' gumbo of legend and truth. After the tour we will have a New Orleans style brunch at one of the many culinary hotspots of the French Quarter. A shuttle will be available on Sunday after brunch to drop people off at the New Orleans or Baton Rouge airports. Rooms are available at the Best Western St. Christopher Hotel New Orleans (a few blocks from the French Quarter) for \$89/night (+tax). Call the hotel at (800) 645-9312 and ask for the LSU Hurricane Center group rate.

10 ACWE CONFERENCE REGISTRATION FORM



Name _____
(first name) (last name)

Title _____

Company _____

Address _____

Phone _____

Fax _____

Email _____

		Through	After	Subtotals
		25-May	25-May	
Conference Registration				
AAWE Members	Full Registration	\$500	\$575	\$ _____
	One day registration	\$185	\$225	
NonMembers	Full Registration	\$525	\$600	
	One day registration	\$210	\$250	
Full Time Students	Full Registration	\$110	\$125	

AAWE Annual Membership \$50 \$ _____

Not a member or haven't renewed for 2005? Include your dues and get member prices shown above.

		Number	Through	After	Subtotals
		of Courses	25-May	25-May	
Short Course Registration					
<small>(Circle all course numbers you are registering for)</small>					
4 Hour Short Courses (4PDH each)		_____	\$95	\$110	\$ _____
	Reduced rate for Conference Registrants Courses T1 T2 T5 W1	_____	\$55	\$65	\$ _____
2 Hour Short Courses (2 PDH each)		_____	\$60	\$70	\$ _____
	Reduced rate for Conference Registrants Courses T3 T4 T6 T7 W4 F1	_____	\$40	\$50	\$ _____
1 Hour Short Course (1 PDH)		_____	\$10	\$15	\$ _____
	Reduced rate for Conference Registrants Course W3	_____	\$5	\$10	\$ _____

		Number	Amount	
		of Persons	Per Person	
Extra Meal/Event Tickets				
June 1 - Icebreaker Reception	_____		\$15	\$ _____
June 2 - Lunch	_____		\$20	\$ _____
June 2 - Banquet	_____		\$45	\$ _____
June 3 - Swamp Tour/Cajun Dinner	_____		\$75	\$ _____

Technical Tour

May 31 - Hurricane Resistant Glass Manufacturing Tour \$25 \$ _____

Companion Tours

June 2 - Nottaway Plantation and lunch \$35 \$ _____

June 3 - Rural Life Museum & LSU campus, lunch at Faculty Club \$25 \$ _____

Post Conference Trip-New Orleans

Dinner on Riverboat, French Quarter tour, Sunday Brunch \$125 \$ _____

Payment **TOTAL** \$ _____

By Check - Make Check Payable to 10ACWE, in US\$
 Mail check to AAWE, PO Box 17298 Baton Rouge, LA, 70893 USA

By Credit Card - Circle Type Mastercard Visa Expiration _____

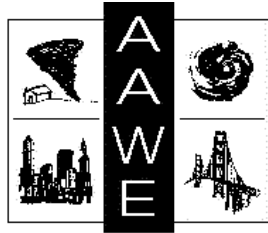
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