



Tenth Americas Conference on Wind Engineering (10ACWE)

May 31-June 4, 2005

Baton Rouge, Louisiana, USA

For More Information  
[www.10ACWE.lsu.edu](http://www.10ACWE.lsu.edu)  
(225) 578-4813

## 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 then 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 life 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.

# 10 ACWE CONFERENCE REGISTRATION FORM



Name \_\_\_\_\_  
(first name) (last name)

Title \_\_\_\_\_

Company \_\_\_\_\_

Phone \_\_\_\_\_

Address \_\_\_\_\_

Fax \_\_\_\_\_

\_\_\_\_\_

Email \_\_\_\_\_

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

		Number	Amount	
		of Persons	Per Person	
<b>Extra Meal/Event Tickets</b>				
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	\$ _____
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**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	\$ _____
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**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 \_\_\_\_\_

Name on Card \_\_\_\_\_ Card Number \_\_\_\_\_  
first name middle initial last name

Billing Address \_\_\_\_\_

Signature \_\_\_\_\_

**FAX REGISTRATION FORM TO +1 (225) 578-7646**



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## **PROFESSIONAL DEVELOPMENT COURSE LIST**

Separate registration required for each course, see registration sheet for details

### **TUESDAY MAY 31**

**ASCE 7 Wind Loads I - Background and Basics**

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

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

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

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

Course T3. 8:15 am-10:30 am (2 PDH)

**What a Consulting Engineer Needs to Know About Wind-Tunnel Testing**

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

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

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

**Bridge Aerodynamics and Vibration Mitigation**

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

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

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

**TECHNICAL TOUR - Manufacturing of Hurricane/Impact Resistant Glass**

Tour T1. 10:20 am-3:30 pm (1.5 PDH)

### **WEDNESDAY JUNE 1**

**Wind and Hurricane Provisions of the International Building Code**

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

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

Special Session W2. 8:00 am-9:00 pm (1 PDH)

**Enhancing Extreme Wind Resistance Envelope Design by Utilizing Product Approvals**

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

**Dynamic Response of Structures to Wind**

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

### **FRIDAY JUNE 3**

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

Course F1. 1:30 am-3:45 pm (2 PDH)



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## **PROFESSIONAL DEVELOPMENT SHORT COURSES**

**Separate registration required for each course, see registration sheet for details**

### **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-10:30 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.

## **What a Consulting Engineer Needs to Know About Wind-Tunnel Testing**

**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-5:30 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 am-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.

## **TECHNICAL TOUR - Manufacturing of Hurricane/Impact Resistant Glass**

**Tour T1. 10:20 am-3:30 pm (1.5 PDH)**

This session 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). Upon arrival at the factory, attendees will be treated to a Louisiana-style lunch of crawfish and jambalaya.

For more information about the company, please see their web site at [www.dependableglass.com](http://www.dependableglass.com).



Large missile impact test

## **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\*\***

**Special Session W2. 8:00 am-9:00 pm (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 am-10:00 pm (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**

## **FRIDAY JUNE 3**

### **Beyond ASCE 7:**

### **What to do When Your Building or Structure is Not Covered by ASCE 7**

Course F1. 1:30 am-3:45 pm (2 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.

## **OTHER PROFESSIONAL-ORIENTED SESSIONS AND ACTIVITIES**

With daily or full conference registration. See full schedule or web site for times and details.

Wednesday June 1

### **Opening Plenary Session on Hurricanes –**

State of the-art presentations on hurricane winds, losses, and mitigation

### **Draft Provisions of the National Standard on Storm Shelter Design and Construction**

Thursday June 2

### **Hurricane Charley Damage Investigation Report**

### **Hurricane Ivan Damage Investigation Report**

### **Building a Safer Louisiana - Learning from Florida Hurricanes of 04**

### **National Wind Hazard Impact Reduction Program**

Friday June 3

### **Professional Paper Session I – Wind Analysis and Design Tools**

### **ASCE 7 05 and ASCE 7-10,**

### **Professional Paper Session II – Hurricane Losses, Mitigation, and Shelters**

## ABOUT THE 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, PE** **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.

### **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 6<sup>th</sup> 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

## **Thomas L. Smith, AIA, RRC**

**President, TlSmith Consulting Inc.**

Thomas L. Smith is president of TlSmith 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.