

# Live Interactive Web Seminar

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## Wind Tunnel Testing for Wind Loads on Structures

Sponsored by ASCE Continuing Education and The Structural Engineering Institute (SEI)

**WEDNESDAY, June 25, 2008**  
**12 Noon – 1 pm Eastern Time**

### PURPOSE AND BACKGROUND

This seminar will cover wind tunnel testing for wind loads, the wind load provisions of the IBC Building Code, and ASCE 7 wind load standard permit wind tunnel testing to define wind loads on buildings and structures to replace those of the analytic provisions. Because a building code must cover a wide range of building shapes with limited analytical procedures, the wind loads determined for a specific structure are often less than code requirements. This seminar presents the types of wind tunnel tests that are typically performed, the results to be expected, the typical benefits of the tests, guidance on when testing is beneficial, and an indication of approximate costs.

The seminar is based on ASCE publications "Minimum Design Loads on Buildings and Other Structures (ASCE 7)" and "Wind Tunnel Model Studies of Buildings and Structures (ASCE Manual of Practice Number 67)". In addition, standard wind-tunnel practices not published in easily accessible documents are outlined.

### SEMINAR BENEFITS

- Learn how to identify when a wind tunnel test will be beneficial
- Gain an understanding of how the wind affects buildings
- Enhance your knowledge of the types of tests available
- Learn how to analyze and use the information provided by a test
- Understand how buildings influence pedestrians
- Earn one Professional Development Hour (1 PDH)

### SUMMARY OUTLINE

- Windstorm types and their relative importance
- Characteristics of the wind
- Tests for cladding pressure
- Tests for frame loads
- Aeroelastic vs. aerodynamic tests
- Pedestrian winds, dispersion of pollutants, and other tests
- Who performs tests and how much does it cost?

### INTENDED AUDIENCE

This webinar will benefit structural engineers, architects, developers, owners, and building officials who are involved with new or redevelopment projects with a value of more than \$20 million. This course is designed for individuals with or without a detailed knowledge of structural engineering.

#### **Benefits of Live Web Seminars:**

- > **Convenient... no travel is required**
- > **Cost-Effective... pay a single site registration fee**
- > **Get real time answers to your questions**
- > **Receive course materials by e-mail prior to the seminar**
- > **View instructor's Power Point slides while he/she is presenting**
- > **Ideal for brown-bag lunch training**

## Information/Registration:



### SEMINAR INSTRUCTOR

**LEIGHTON COCHRAN, Ph.D., P.E., M.ASCE**, is a Principal in the consulting firm of CPP Inc., a company with more than 80 employees devoted to wind engineering. He has over 25 years experience in defining wind loads on structures using wind-tunnel modeling. He is Chair of the ASCE Structural Wind Engineering Committee, under the umbrella of the new Technical Council on Wind Engineering which he helped to form in 2007. Dr. Cochran is a member of other ASCE Committees such as: the Tall Building Committee, the Environmental Wind Engineering Committee, the Committee on Aesthetics in Design and the Special Structures Committee. He has been an invited keynote speaker at several national and international workshops and conferences. Currently, Dr. Cochran is the President of the American Association for Wind Engineering which is a 40-year old organization that collaborates with ASCE on many wind-related issues.

### BENEFITS OF LIVE TELEPHONE/WEB SEMINARS

These online courses use teleconferencing and the Genesys Meeting Center software to make the courses actual live, interactive learning experiences. You will be able to ask the instructor questions and get live real time answers. The instructor will be able to conduct polls to gauge your interest in certain areas and ask you questions as well. You will receive course materials by e-mail prior to the seminar and will be able to view the instructor's Power Point slides during the seminar. These types of online courses have a much higher impact than simply reading material on the web. Live telephone/web seminars offer exceptional convenience and are very cost-effective. No travel is required and the site registration fee allows an unlimited number of participants to attend at each site. In addition, each course participant will earn one Professional Development Hour (PDH) per seminar hour.

### SYSTEM REQUIREMENTS FOR PARTICIPANTS

As a participant using the Meeting Center, your computer must meet the following requirements:

**Audio:** Using a touch-tone telephone.

**Web:** Microsoft Internet Explorer 6.0, Mozilla Firefox 1.5 for Windows/Mac/Linux, or Safari 2.0 for Macintosh\*. Internet connection of minimum 128K.

**Pop-up Blockers:** All Pop-up blockers must be disabled.

**Java:** Microsoft Internet Explorer 5.5 with Java script and session cookies enabled.

*\*Limited support for Windows XP SP1 and Vista. Safari on Windows is not supported*

### REGISTER ONLINE NOW! SPACE IS LIMITED!

To register go to: <http://www.asce.org/webinar/list>. For more information call 1-800-548-2723. Please note: Registration for each seminar will be closed three business days prior to the seminar. No cancellations will be accepted if they are received within three business days of a seminar. Late registrations may be accepted if space is available and will be assessed a \$25.00 late registration fee. Your registration will be confirmed by e-mail.

Two business days before the seminar, you will receive a confirmation e-mail with a link to download the course materials, a sign in sheet to verify attendance, and detailed information on how to join the meeting; including the phone number you'll need to dial, and meeting number. Please contact the registrar, at [webinars@asce.org](mailto:webinars@asce.org), no later than 12 noon Eastern Time the day prior to the seminar if you do not receive the confirmation e-mail or for additional information.

### CEU'S/PDH'S

ASCE is an IACET-authorized CEU provider and complies with the IACET criteria for awarding CEUs. In addition, ASCE follows NCEES guidelines on continuing professional competency. Since continuing education requirements for P.E. license renewal vary from state to state, ASCE strongly recommends that individuals regularly check with their state registration board(s) on their specific continuing education requirements that affect P.E. licensure and the ability to renew licensure. For details on your state's requirements, please go to: [http://www.ncees.org/licensure/licensing\\_boards/](http://www.ncees.org/licensure/licensing_boards/).

### REGISTRATION FEES\*

#### WIND TUNNEL TESTING FOR WIND LOADS ON STRUCTURES

WEDNESDAY, June 25, 2008 / 12 noon – 1 pm Eastern Time

\$249 Member  \$299 Non-Member

**SEI** was created in 1996 to serve the unique needs of the structural engineering community more effectively while also being their voice on broader issues that shape the entire civil engineering community. The mission of the Structural Engineering Institute (SEI) is to advance and serve the structural engineering profession. It has 20,000 members and strives to advance its members' careers, stimulates technological advancement, and improves professional practice.

*\*Fees per seminar site. Pay one site registration fee and an unlimited number of people in your organization can attend the seminar at that site. The single site registration fee for ASCE's live, web seminars is intended to be an easy, affordable way to provide training for multiple employees in your organization. Your single site registration fee provides you with a site license for one computer log in to the seminar and one toll free phone call to access the audio portion of the seminar. The site license provided to you by the single site registration fee does not permit you to have multiple logins or phone calls from your site or to transmit this information to another site. Therefore, if you plan to have a large group attend the seminar at your site, all participants should assemble in a conference room to hear (via speaker phone) and view (via one computer and a computer projection system) the seminar. If you have several sites, you must register each site individually and pay a separate site registration fee.*