



CWE2010



**THE FIFTH
INTERNATIONAL
SYMPOSIUM ON
COMPUTATIONAL
WIND ENGINEERING**

Chapel Hill, North Carolina
USA • May 23-27, 2010



International Association
for Wind Engineering

**♦ Call to Attend and Register Online by March 1, 2010 at the Early Rate ♦
Fifth International Symposium on Computational Wind Engineering ♦ May 23-27, 2010
William and Ida Friday Center for Continuing Education ♦ Chapel Hill, North Carolina, USA**

Scientists, academicians, technologists, architects, and engineers from around the world will assemble at the Fifth International Symposium on Computational Wind Engineering (CWE2010). Wind engineering involves the interaction of wind with nature and manmade works. More than 330 oral platform and poster technical presentations are expected from attendees representing over thirty countries. Each technical session with oral platform presentations will include time for questions. There will be technical sessions where poster presenters will be given a few minutes to introduce orally their poster, followed by a viewing period. Accepted abstracts are now posted on the CWE2010 Web site. A full paper (8-page limit) is required (both for oral platform and poster) for publication in the symposium proceedings.

This symposium will provide a platform for discussing and exchanging the latest information associated with the application of Computational Fluid Dynamics (CFD) simulations to wind engineering. Each international symposium on Computational Wind Engineering (CWE) reflects the scientific advances in the developing CWE sciences linked to rapid advances in high performance computing hardware and software. CWE does not necessarily mean CFD, but can include various techniques using computers.

Conference Scope & Topics

Presentations cover the wide range of topics related to Computational Wind Engineering. This includes presentations on full-scale field and wind-tunnel data aiming to support CWE developments, applications, and validation. Presentations on the future of computing hardware and software, as it may influence the future of CWE, are included in the CWE2010 agenda.

The theme for CWE2010 is CWE Applications for Homeland and Societal Security. This theme includes natural and human-caused hazards and disasters supporting disaster preparedness and response for wind damage, fire damage, and environmental contamination. Special sessions have been organized on the integration of multiscale CWE models with endpoints for human health, property effects, and wind energy.

Several technical sessions will be related to and follow four special topic plenary sessions (cwe2010.org/program.html):

- Applying Computational Wind Engineering to Practice: Perspectives from the Political, Academic, Corporate, and Public Sector Community
- Trends in High Performance Computing for CWE
- Development, Validation, and Application of Atmospheric Boundary-layer Models and Turbulence Models for CWE
- Coupling CWE and Mesoscale Meteorological Models

Where & Who

The symposium will be held at the William and Ida Friday Center for Continuing Education, Chapel Hill, North Carolina, adjacent to the campus of the University of North Carolina at Chapel Hill. This modern facility has handicap accessibility and free high-speed wireless internet access. Multimedia presentation and recording may be supported. For additional information, visit www.fridaycenter.unc.edu.

The Friday Center is a fifteen minute ride from the Raleigh-Durham International Airport (RDU). RDU has non-stop flights from many major USA cities and a few international cities. Chapel Hill is a University town and part of the Research Triangle Park (RTP), a metropolitan area including Chapel Hill, Durham (with Duke University), and Raleigh (with North Carolina State University). RTP includes one of the oldest and largest science parks in North America with over 170 companies.

The International Association for Wind Engineering (IAWE) co-convenes the Computational Wind Engineering (CWE) conference every four years in rotation with one of its three global regional organizations. The American Association for Wind Engineering (AAWE) is co-convening the 2010 event. The Renaissance Computing Institute (RENCI), the University of North Carolina Institute for the Environment (IE), and the UNC Center for the Study of Natural Hazards and Disasters are hosting the event.

For more information and to register online, please visit www.cwe2010.org.



Join us at CWE2010. Register by March 1 at the Early Rate

Please examine the symposium Web site for more details and complete your registration today. Please E-mail me at alan.huber@cwe2010.org with any special needs related to your participation. I will do all I can to make CWE2010 a scientifically rewarding and enjoyable event. May is a colorful and comfortable period in North Carolina. A social program for the evening and a daily guest program are being planned. I look forward to greeting each of you at CWE2010.

Warm regards,
Alan Huber, Chairperson CWE2010

Committees

Organizing and Host, Advisory, and Scientific Committees have been formed to support CWE2010. A successful symposium would not be possible without these volunteers.

Organizing and Host Committee
Chairperson - A. Huber (USA)
Members to date:

J. Albertson (USA)	N. Kaye (USA)
S. P. Arya (USA)	A. Kolesnikov (USA)
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T. M. Evans (USA)	R. P. Selvam (USA)
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Advisory Committee
Honorary Chairperson - S. Murakami (Japan)
Chairperson - T. Stathopoulos (Canada)
Members to date:

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B. Blocken (The Netherlands)	H. Hangan (Canada)	S. Parameswaran (USA)
C. Borri (Italy)	A. Huber (USA)	W. Rodi (Germany)
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L. Cochran (USA)	A. Larsen (Denmark)	T. Uyar (Turkey)
H. Cruzado (Puerto Rico)	C. Letchford (Australia)	
G. Diana (Italy)	M. Matsumoto (Japan)	

Scientific Committee
Chairperson - B. Blocken (The Netherlands)
Members to date:

M. Abuku (Switzerland)	J. Franke (Germany)	C. Letchford (Australia)	P. Selvam (USA)
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S. Cao (China)	S. Kato (Japan)	S. Parameswaran (USA)	H. Wu (Canada)
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W. K. Chow (Hong Kong)	G. A. Kopp (Canada)	P. Sarkar (USA)	T. Yamada (USA)
R. Conzemius (USA)	S. D. Kwon (Korea)	M. Schatzmann (Germany)	R. Yoshie (Japan)
E. Fedorovich (USA)	B. Leitl (Germany)	H. Schlünzen (Germany)	

Key Event Dates

Accepted Abstracts
Posted in January

Preliminary Program
Posted in January

Full Papers
Due March 1, 2010
Eight-page limit

Registration Now Open!

Please read and follow the instructions at www.cwe2010.org.

Registration fee includes copy of the CWE2010 proceedings and all handouts. Breakfast, buffet lunch, and afternoon refreshments will be provided each day. Regular (non-student) registration includes a ticket for the Sunday reception-dinner and the Wednesday Banquet.

Standard Rate \$695
Early Rate \$595 (Valid until March 1)

Special Student Rate \$295
Student Reception & Banquet \$95
Limited financial reimbursements for students are being arranged

Other Options to Consider
University Housing
Workshops
Guest program
Evening Social Events