

American Association  
for Wind Engineering

# AMERICAN ASSOCIATION FOR WIND ENGINEERING

www.aawe.org

SEPTEMBER 2001

THE WIND

ENGINEER

Bogusz (Bo) Bienkiewicz, Editor

September 2001

## Special Points of

### Interest:

- *World Trade Center Towers will be remembered for the tragic loss of life but should also be remembered for their contributions to advancing engineering knowledge.*
- *Tribute to Dr. Dale Perry*
- *Posthumous AAWE award to Dr. Richard Marshall*
- *New AAWE Board member*
- *Report on 3 EACWE*
- *National Shelter Association formed*
- *Call for bids to host next Americas Conference on Wind Engineering*

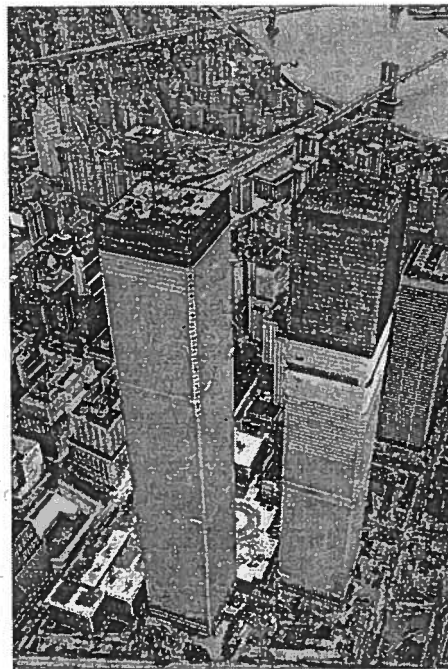
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## *Tragic Loss of Human Lives and the Loss of an American Landmark*

Our heart goes out to the thousands of persons who lost their lives when terrorists crashed two jumbo jets into the World Trade Center towers in New York City. Many persons who lost relatives and friends will continue to feel the pain of this despicable event for many years to come.

The World Trade Center towers were not only a symbol of New York City known around the world but also were a symbol of remarkable technical achievements in structural and wind engineering.



World Trade Center Towers Under Construction

Although there will be much discussion regarding the future design of tall buildings to resist unexpected events, it does not appear that there is much disagreement that no ordinary building structure could have been designed to withstand the thermal loads that resulted from the ignition of huge quantities of aviation fuel. The innovative design of the buildings did demonstrate a high degree of redundancy and ability to survive in spite of the loss of structural members.

A few of the advances in structural and wind engineering associated with these buildings include:

- Significant advances in boundary-layer wind tunnel simulation of the planetary boundary layer and model testing.
- Advances in model construction and mounting of structures to study dynamic response using wind tunnels.
- Developments in wind tunnel instrumentation.
- Studies to evaluate human perception and tolerance of motions in buildings,
- Innovative application of the "tube" concept for tall building structural design.
- Incorporation of replaceable viscoelastic dampers in the structure.
- Advances in vertical transportation in tall buildings.

As a result of the pioneering studies carried out for the Trade Center Towers many structures that followed have

benefited from these efforts.

### *Dr. Dale Perry*

The Wind Engineering community mourns the loss of Dr. Dale Perry. Dr. Perry was R.L. Dockery Professor of Housing and the Homeless in the Department of Architecture, Texas A&M University. He was past president of the American Association for Wind Engineering, when it had its previous name of the Wind Engineering Research Council (WERC), and made significant contributions throughout the field of wind engineering. He served on various committees of many professional organizations including ASCE, SEI, SBCCI and ICBO. He also served as team leader or member for a number of post-disaster investigations.

Previously, Dr. Perry taught at the University of Idaho, Washington State University, Georgia Institute of Technology and the University of California at Berkeley. He served as Director of Research and Engineering for the Metal Building Manufacturers Association. A large number of organizations and companies, including FEMA, NSF and State Farm Insurance, have called on Dr. Perry's expertise as a consultant over the years.

He twice received the Distinguished Service Award presented by the National Hurricane Conference. Norris Stubbs, A.P. & Florence Wiley II Professor of Civil Engineering at Texas A&M University, remembers Dr. Perry as an excellent teacher and enthusiastic scholar. Dr. Perry taught a professional ASCE short course with Kishor Mehta (of Texas Tech University) on the wind load provisions of ASCE 7 and co-authored the most recent guide to ASCE 7-98 with Dr. Mehta.

Dr. Mehta remembers a humorous incident demonstrating how Dr. Perry always came out ahead. "Once when flying to India, Perry left his presentation slides on the plane. Dorothy Reed was flying on a similar schedule from the U.S. to India the next day and the flight attendant mentioned in passing that somebody had left slides on the plane the previous day. Dorothy was going to the same conference as Dale and took the slides with her. Dale rear-

ranged the slides and made the presentation without a hitch. Only he could be so forgetful and yet recover from it effortlessly."



*Dale Perry and Kishor Mehta at the Americas Conference on Wind Engineering—2001*

Dr. Perry was inspecting a roof in Dalton, GA, on June 18 when he fell through the roof and died instantly from the fall. He will be remembered for his contributions to wind engineering but also for his cheerfulness and enthusiasm.

### ***AAWE Award to Dr. Richard Marshall Presented Posthumously to Virginia Marshall***

AAWE wished to present a Special Award of Merit to Dr. Richard Marshall to recognize his many contributions to the field of wind engineering. These included many contributions to better understanding the engineering nature of boundary layer wind fields under different storm conditions, full-scale observations on structures in the U.S. and abroad, development of design recommendations for many different types of structures, teaching special courses in wind engineering, and numerous contributions to technical society meetings and publications.

Unfortunately the health problems that eventually took his life prevented Dr. Marshall from attending the AAWE meeting in which the presentation was to be made. In a bittersweet turn of events, Dr. Dale Perry represented AAWE in the ceremony in which Dr. Marshall's wishes were carried out to return his ashes to his "home" territory by being placed in the Yellowstone River. As you can see from the article above, Dr. Perry

perished in a tragic accident shortly after the presentation of the plaque and his attendance at the Americas Conference on Wind Engineering - 2001. The photos below were taken at this ceremony in which Dr. Perry made the presentation to Dick Marshall's wife Virginia:



Photo 1



Photo 2

June 8, 2001

Description - Photo 1.

Dale Perry presenting award to Virginia Marshall. Dick Randall, Dick Marshall's nephew in background

Description - Photo 2.

Mary Lee Randall, Dick's sister holding award plaque with Virginia Marshall looking on.

*New AAWE Board Member, Dr. Marc Levitan*

There has been a vacancy on the AAWE Board since a Board member member found it necessary to resign his position. We would like to welcome Dr. Marc Levitan who has agreed to join the Board and fill the vacant position for the remainder of the term that extends to Dec. 31, 2002.

Dr. Marc Levitan has been very active in wind engineering and has become widely known in the professional community.



Dr. Marc Levitan has been actively engaged in wind engineering research, practice, and teaching for the past 15 years. His primary research focus is in the fields of wind loading on structures, wind damage assessment, wind damage mitigation, and hurricane sheltering and evacuation issues. Past research projects have dealt with wind loading on low-rise buildings, electrical power transmission towers, and many other types of structures. He is currently involved with research in areas relating to wind loading on industrial and petrochemical structures, and assessment/retrofit/design of hurricane evacuation shelters.

Dr. Levitan has over 20 publications in these areas and has made a similar number of presentations at conferences, seminars, and short courses. He was the driving force behind the creation of the new LSU Hurricane Center. The Center is a campus-wide, multi-

disciplinary initiative. Its mission is to address hurricanes and other weather-related hazards and their impacts on the natural, built, and human environments. Information on the Hurricane Center can be found on the web site [www.hurricane.lsu.edu](http://www.hurricane.lsu.edu).

Prior to joining LSU, Dr. Levitan spent five years as the Managing Director of the Wind Engineering Research Field Laboratory at Texas Tech University. This laboratory is a state-of-the-art facility for measuring wind loads on low-rise buildings and structures. During his tenure as Managing Director, the project grew from an idea on the drawing board into an internationally respected laboratory. He was responsible for the design and construction of the laboratory and its test facilities; development of the computerized data acquisition and data analysis systems; designing and managing many of the experiments performed at the lab; and personnel management.

Dr. Levitan has done consulting work in the fields of wind-damage investigation, site-specific prediction of extreme wind speeds, wind load analysis on a variety of buildings and structures, and design of instrumentation and data acquisition systems for dynamic loads on structures.

The academic pursuit of Dr. Levitan is structural engineering with the focus areas of structural analysis, design of steel structures, wind engineering, and hurricane engineering. He has received teaching awards from the ASCE and Chi Epsilon student chapters, the LSU and Texas Tech Civil and Environmental Engineering Departments, and the Chi Epsilon Southern District.

We will look forward toward Dr. Levitan's involvement in the AAWWE Board and other AAWWE activities.

### *The New AAWWE Bylaws are Official*

The ballots on approving the new Bylaws for AAWWE have been tabulated and the results were unanimous for approval of the new Bylaws. All this in spite of a glitch in the posting of the new

Bylaws on the AAWWE web page. It turns out that the .pdf (Adobe) version of the Bylaws were correct but the HTML version was linked to the old Bylaws instead of the new. As soon as this was brought to our attention the problem was corrected. The new Bylaws were also published in a previous Wind Engineer and are now available on the AAWWE web as the current Bylaws for AAWWE. Many thanks are due to Jack Cermak, Art Chiu and Joe Golden for their efforts in providing the new Bylaws. The Bylaws can be found on the web by clicking on the "about" icon on the introductory page and then selecting the Bylaws listing.

### *Legal Status of AAWWE*

AAWWE was originally incorporated in the State of Colorado and registered with the IRS as a nonprofit corporation as the Wind Engineering Research Council. Somehow when it was decided to change the name to the American Association for Wind Engineering, the legal status of the organization under this new name resulted in some confusion and it was not clear that the organization was properly registered with the State of Colorado and the IRS.

After some extensive communication with the State of Colorado and the IRS the status of AAWWE was finally brought up to date. The organization is now a Corporation registered in the State of Colorado under the name American Association for Wind Engineering. Cermak, Peterka and Peterson in Fort Collins Colorado have kindly agreed to provide the required registered agent address in Colorado. The IRS has also provided a letter confirming the nonprofit status of AAWWE with the name change that was also required. A copy of the IRS letter and information on the corporate status of AAWWE have been placed on the AAWWE web under the "about" icon and then the "legal status" icon.

### *3 EACWE: Report on the Third European and African Conference on Wind Engineering*

by Marc Levitan

The 3rd European and African Conference on Wind Engineering (3 EACWE) was held at the University of Technology at Eindhoven, Netherlands, on July 2-6 2001. This weeklong meeting followed earlier EACWE meetings in Genova, Italy (1997) and the British Isles (1993). Over 100 people were in attendance, primarily from Europe, but with some coming from Africa, Asia, and North America. Keynote lectures were provided by

\* John D. Holmes, "Effective Static Wind Loads - Simplified Code Models and Theoretical Distributions"

\* Henry Tieleman, "Wind Loads on Low-Rise Structures: Wind Tunnel Model Experiments"

\* J.W. Verkaik and A. Smits, "Interpretation and Estimation of the Local Wind Climate"

\* Adam Goliger, "The Relevance of Wind Engineering under African Conditions"

The conference included plenary sessions on Wind Engineering in Africa, and Urban Wind Engineering: Impact of Wind and Storms on the Built Environment. There were a number of presentations and committee meetings related to the European Code on wind actions and a cooperative program on Urban Wind Engineering and Industrial Aerodynamics (COST-14). A full-day excursion to the Rotterdam area in the middle of the week was one of the highlights of the conference. Tour participants saw flood control structures, windmills, and a cable-stayed bridge with retrofitting to reduce wind-induced cable vibrations.

There were two concurrent tracks of presentations, during most of the four days, as well as a poster session. A couple of the most interesting papers (to this attendee) were on a novel wind tunnel facility at Silsoe and proposed revision of roughness classifications. Roger Hoxey and Adam Robertson presented information on their new Atmospheric Flow Laboratory for large-scale testing of low speed wind effects. It features a 6 x 5 x 20 m long working section, with 56 frequency-controlled fans than can be controlled as 28 independent pairs to generate velocity profile and turbulence characteristics mechanically. Jon Wieringa

presented a paper coauthored with Davenport, Grimmond, and Oke, updating the Davenport eight-class descriptions of effective aerodynamic roughness through analysis of over 75 experiments over homogeneous and inhomogeneous terrain.

For more information or to obtain a copy of the conference proceedings, contact the 3EACWE conference secretary Chris Guerts (c.geurts@bouw.tno.nl).

### *National Storm Shelter Association*

The National Storm Shelter Association (NSSA) was founded in 2000 to ensure the highest possible quality of manufactured or constructed storm shelters. The Association requires that its members produce only those storm shelters that meet the high standards of NSSA. Through membership listings and a seal program, NSSA will provide distinction for those members who comply fully with the NSSA Standard and the Bylaws that includes a Code of Ethics.

To establish the level of quality expected, NSSA first had to develop a comprehensive standard that covered both underground and aboveground storm shelters of any size. An industry standard was approved in April 2001. Shelters constructed or manufactured and installed to comply with the NSSA Standards meet the FEMA criteria presented in Publication 320, Taking Shelter From The Storm, for small shelters in Publication 361, Design and Construction Guidance for Community Shelters.

The Standard, along with member requirements, may be downloaded from the web at [www.nssa.cc](http://www.nssa.cc) <<http://www.nssa.cc>>. It is expected that a national consensus standard for storm shelters will evolve to supersede the NSSA industry standard.

The Bylaws of the Association are currently undergoing revision to include a seal program wherein a seal will be affixed to those shelters that have been determined by third parties to meet debris impact and all other requirements of the NSSA Standard. The serial number of the shelter and its location will be registered with NSSA, permitting research on shelter performance to be done when registered shelters are affected by an extreme wind event.

Various grades of membership are available to those with varying interest in the shelter industry. The grade of MEMBER is reserved for those who produce shelters and take responsibility for their performance. The Associate Member grade is intended for shelter component suppliers, fabricators, installers, or those engaged in other ways in the shelter industry but who do not have direct responsibility for shelter compliance with the Standard. The Professional Member grade is intended for design professionals, such as engineers or architects. Educational institutions, service organizations, and non-profit firms may join NSSA as Allied Members. Finally, Corporate Sponsor memberships are available to those companies, firms, corporations, or partnerships that have interest in promoting quality in the shelter industry.

Additional information as well as membership application forms may be downloaded from the NSSA website or be obtained by contacting the NSSA headquarters at (877) 700-NSSA (6772).

Article submitted by  
Ernst W. Kiesling, P.E., Ph.D.  
Executive Director

### ***Next Americas Conference on Wind Engineering 2005 - Invitation to Host the Conference***

One of the functions of AAWE has been to sponsor what was originally a National Conference on wind engineering, generally on a 4 year cycle. The International Association for Wind Engineering developed a strategy to achieve an orderly spacing for regional conferences that was accepted by the world wind engineering community. The arrangement is that the world be divided into four geographic areas, Europe and Africa, The Americas and the Caribbean, Asia-Pacific and Eastern-European. Each region will hold a Conference for their region on a four year cycle. The International meeting will be held every 4 years with regional conferences held at at the 2 year mid-point between the International Conferences. Information on inter-

national activities is available on the web site <http://www.ear-iaawe.org/>.

Since 1972 there have been eight U.S. National Wind Engineering Conferences and the first Americas Wind Engineering conference using the designation of the new organizational structure. The proceedings of these conferences contain a large amount of valuable technical information, which may not be available elsewhere. Because of this, April McDowell who is associated with the Texas Tech Wind Engineering Research Center, compiled a list of the proceedings of these conferences which is presented below:

The Proceedings of the U.S. National Conferences of Wind Engineering are listed below. Most are available from the National Technical Information Service (NTIS); some are also available from other sources. NTIS adds a \$5 per order handling charge, \$10 per order outside of North America. Orders can be sent to NTIS, 5285 Port Royal Road, Springfield, VA 22161, or by fax to (703) 605-6900. You can order online from <http://www.ntis.gov/ordering.htm>. Prices given are as of June 1999.

***Proceedings of the 1st U.S. National Conference on Wind Engineering***, 18-19 December, 1970, California Institute of Technology, Pasadena, CA, edited by A. Roshko. Available from NTIS as PB87-144135 for \$41.

***Proceedings of 2nd U.S. National Conference on Wind Engineering***, 22-25 June, 1975, Colorado State University, Fort Collins, CO, edited by J.E. Cermak. Available from Jack E. Cermak for \$25 which includes shipping and handling. Make checks payable to Colorado State University. Available from NTIS as PB87-148995 for \$96.

***Proceedings of the 3rd U.S. National Conference on Wind Engineering***, 26 February - 1 March, 1978, University of Florida, Gainesville, FL, edited by B.M. Leadon. Proceedings available from NTIS as PB87-149001 for \$81.50.

***Proceedings of the 4th U.S. National Conference on Wind Engineering***, 26-29 July 1981, University

of Washington, Seattle, WA, edited by B.J. Hartz. Proceedings and Preprints must be obtained in order to have a complete set of the papers presented. Proceedings are available from NTIS as PB87-148987 for \$75. Preprints are available from NTIS as PB87-149019 for \$86.50.

***Proceedings of the 5th U.S. National Conference on Wind Engineering***, 6-8 November, 1985, Texas Tech University, Lubbock, TX, edited by Kishor C. Mehta and Richard A. Dillingham. Available for \$25 (includes postage) and \$2 tax from the Wind Engineering Research Center, Box 41023, Lubbock, TX 79409-1023. Make checks payable to Texas Tech University. Available from NTIS as PB86-130671/LL for \$133.

***Proceedings of the 6th U.S. National Conference on Wind Engineering***, 2 vols., 8-10 March, 1989, University of Houston, Houston, TX, edited by Ah-san Kareem. Not available from NTIS at this time.

***Proceedings of the 7th U.S. National Conference on Wind Engineering***, 2 vols., 27-30 June, 1993, University of California, Los Angeles, edited by Gary C. Hart. Not available from NTIS at this time.

***Proceedings of the 8th U.S. National Conference on Wind Engineering***, 5-7 June 1997, The John Hopkins University, Baltimore, MD, edited by Nicholas P. Jones. A book of Proceedings abstracts and a CD-ROM available for \$30, CD-ROM only for \$10 (includes postage) from Dr. Nicholas P. Jones, Dept. Of Civil Engineering, The Johns Hopkins University, 3400 N. Charles St., Baltimore, MD 21218-2686. Selected papers available as *Journal of Wind Engineering and Industrial Aerodynamics*, vols. 77-78. Not available from NTIS at this time.

***The Americas Conference on Wind Engineering—2001*** was held at Clemson University, Clemson, SC from June 4 through June 7, 2001. No formal proceedings is currently available. A book of abstracts was made available at the Conference. For further information and availability contact Prof. Scott Schiff, Department of Civil Engineering, 306 Lowry Hall, Phone: (864) 656-0456, FAX: (864) 656-2670, E-Mail : [scott.schiff@ces.clemson.edu](mailto:scott.schiff@ces.clemson.edu)

Selected papers from the Conference will be published in wind engineering related journals.

As can be seen there is a history of successful conferences that have been of great value in improving communication between wind engineers and in making new wind engineering knowledge available to the professional community and to others concerned with the field. Through these meetings the wind engineering community has made valuable contributions toward mitigating losses and saving lives threatened by severe wind and associated water events.

Although it is still some time before the next Americas Conference on Wind Engineering, we are seeking expressions of interest from organizations that would like to make a bid to host the 2005 Conference. One offer has already been received to host the 2005 Conference but AAWE would like to provide an opportunity for any other organizations that would like to host the Conference to make a bid. Hosting the Conference involves quite a bit of work and responsibility. Although AAWE sponsors the Conference, the host institution is responsible for assuring that meeting space is available, that adequate hotel and living space are available, that a Steering Committee is established to help plan the Conference and the technical program and to assure that technical papers and presentations receive a proper level of review. Attention also has to be given regarding possible publication through traditional or electronic means. The host institution is also responsible for the financial planning and initial financing of the Conference. AAWE will provide assistance in planning, publicity, encouraging support from granting institutions and to provide any other help within it's means.

If any institution or group would like to make a bid to host the next Conference, an indication of this should be sent to Dr. Partha Sarkar, Secretary/ Treasurer of AAWE at Dept. of Aerospace Engr. & Engr. Mechanics, 2271 Howe Hall, Room 1200, Iowa State University, Ames, IA 50011-2271 for presentation to the AAWE Board. This information should be received by Dec. 31, 2001. If more than one bid is received that presents a satisfactory pro-

posals, the selection will be made by a vote of the AAWE membership. It is important to plan for the next Conference well in advance to permit ample time for planning, publicizing, fund raising and the many other tasks associated with organizing the meeting.

### *Presidents Message*

Hazards can be natural or man-made. Unfortunately the man-made disasters can occur in relatively unexpected places and in many forms. For natural disasters it may not be possible to predict exactly when and where they may occur but the general nature of natural disasters are known - although not fully understood. The World Trade Center disaster has resulted in a declaration of war against terrorism. This is surely a needed step but it is hoped that this will not distract us from another war that has been going on for many years—the war against disastrous impacts of natural hazards. Some significant advances have been made in this natural hazard war in many countries, particularly with respect to loss of life. Unfortunately these advances are not always realized in less advantaged countries and there are significant threats with respect to loss of life due to natural hazards with wind and related water effects a major contributor.

A perplexing problem in the U.S. is the very low level of support for research that will provide a more adequate knowledge base for providing safer designs and construction that will be more resistant to extreme wind and water related loadings. The development of this knowledge base to support improved design and construction requires adequate experimental facilities, an aggressive field effort and programs that can train a cadre of engineers and researchers to carry on this effort. At the present time some of the excellent experimental facilities that have provided the supporting information for advances in wind loading standards are underutilized and may even be in danger of being deactivated. This would be a national tragedy should this occur. In addition there is a need to carry out an assessment of what overall experimental facilities, numbers of students that should be educated and

what new programs are needed to provide a dependable future capability to mitigate storm hazards. This should be an integrated assessment and not just focus on a single item such as large or full-scale facilities. Any thoughts the wind engineering community may have on this situation would be welcomed. Our e-mail address [aawe.aawe.org](mailto:aawe.aawe.org) can receive comments.

### *LSU Faculty Positions Available*

The Louisiana State University Department of Civil and Environmental Engineering is advertising for two faculty positions. Applicants with expertise in any area of structural engineering are invited to apply, although preferred areas of specialization include wind engineering, hurricane engineering, engineering for natural and technological hazards, and hazard mitigation. Review of applications will begin on October 15, 2001, and continue until the positions are filled.

Wind engineering facilities at LSU include two research wind tunnels with modern instrumentation and two instructional tunnels. Collaborative opportunities with scientists from many disciplines abound through the LSU Hurricane Center. Other campus resources include a large wave tank, climate archives and real-time weather data available through the Southern Regional Climate Center, and satellite-based remote sensing data available through the LSU EarthScan Lab. For more information contact Marc Levitan (225/578-4445, [levitan@hurricane.lsu.edu](mailto:levitan@hurricane.lsu.edu)) or visit the LSU Hurricane Center web site at [www.hurricane.lsu.edu](http://www.hurricane.lsu.edu).

### *John Holmes Visiting LSU*

John Holmes is spending the Fall 2001 semester as a visiting professor at Louisiana State University, working with the LSU Hurricane Center and Department of Civil and Environmental Engineering. He is offering a graduate course on Wind Loading and Structural Response, using his brand new book. John is also working with the Center on their NSF-sponsored Hurricane Engineering project, and helping whip the new LSU Wind Tunnel Laboratory into shape.

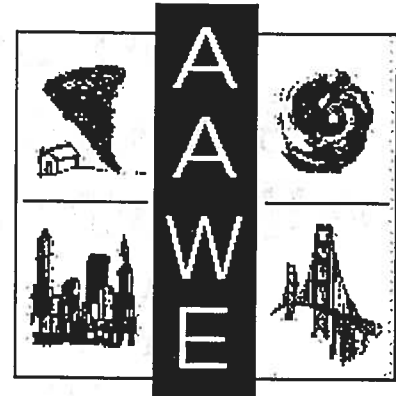
# AMERICAN ASSOCIATION FOR WIND ENGINEERING

[www.aawe.org](http://www.aawe.org)

E-mail: [aawe@aawe.org](mailto:aawe@aawe.org)

Tel: 716-689-4914

Fax: 515-294-3260



**American Association  
for Wind Engineering**

## OBJECTIVES

The American Association for Wind Engineering (AAWE) was established in 1966. The objectives of AAWE are: (1) the advancement of the science and practice of wind engineering and (2) the solution of national wind engineering problems through transfer of new knowledge into practice.

## CURRENT OFFICERS

**President:** M. P. Gaus (Univ. of Buffalo)

**Vice President:** B. Bienkiewicz (Colorado State Univ.)

**Secretary/Treasurer:** P. Sarkar (Iowa State Univ.)

**Board of Directors:** A. Chiu (Univ. of Hawaii), T. Gibbs (Consulting Engineers Partnership LTD, Barbados), J. Golden (NOAA), M. Levitan (La. State Univ.), T. L. Smith (T. L. Smith Consulting, Inc.), A. Kareem (Univ. of Notre Dame).

## WHY YOU SHOULD JOIN:

AAWE provides networking opportunity with U.S. wind engineering community through regular and special publications, e-mail communication, internet resources, and technical meetings.

## HOW TO JOIN

Fill-in the Membership Application/Renewal Form and forward it to AAWE Secretary/Treasurer. For more information visit AAWE web site ([www.aawe.org](http://www.aawe.org)) or contact Mike Gaus ([mgaus@gausassoc.com](mailto:mgaus@gausassoc.com)), 716-689-4914, voice) or Bo Bienkiewicz ([bogusz@engr.colostate.edu](mailto:bogusz@engr.colostate.edu), 970-491-8232, voice).

Get involved in formulating  
National Wind Hazard Reduction Program

Please Post

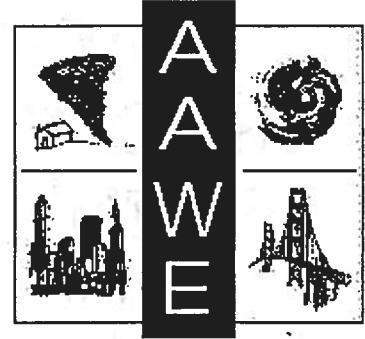
# AMERICAN ASSOCIATION FOR WIND ENGINEERING

www.aawe.org

E-mail: aawe@aawe.org

Tel: 716-645-2114 x-2410

Fax: 716-645-3733



**American Association  
for Wind Engineering**

## Membership Application/Renewal

**Membership Year: January 1, 2002 - December 31, 2002**

Dues (Check appropriate category):

Individual Membership: \$50\_\_\_\_, Student \$10 \_\_\_\_\_

Corporate Membership; \$500 or more: \_\_\_\_ . Corporate membership can include up to five individual members. Complete one form for each individual member.

Please make checks or other payments (in U.S. \$ equivalents only) payable to American Association for Wind Engineering and mail to:

**Dr. Partha Sarkar, Dept. of Aerospace Engr. & Engr. Mechanics**  
**2271 Howe Hall, Room 1200, Iowa State University, Ames, IA 50011-2271**  
 E-mail: ppsarkar@iastate.edu, Tel: 515-294-0719, Fax: 515-294-3260

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Affiliation \_\_\_\_\_

City \_\_\_\_\_ State/Zip \_\_\_\_\_

Country \_\_\_\_\_

Ph: \_\_\_\_\_ Fax: \_\_\_\_\_

E-mail \_\_\_\_\_

Your Wind Engineering Interests \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

## From the Editor

Contributors to this Newsletter:

- World Trade Center—M. P. Gaus
- Dr. Dale Perry—material furnished by TTU Wind Engineering Research Center
- Award to Dr. Richard Marshall—Photos provided by Virginia Marshall
- National Storm Shelter Association—Dr. Ernst Kiesling
- 3rd EACWE—Dr. Marc Levitan

Material for articles in the Wind Engineer are welcomed.

Please forward your contributions to The Wind Engineer, to bogusz@enr.colostate.edu.

## WIND ENGINEERING AND RELATED CONFERENCES September 2001 Update

### 2001

**OCTOBER 18-20**

*UNESCO Workshop at the Institute for Catastrophic Loss Reduction, Univ. of Western Ontario, London, Ontario, Canada N6A5B9*

Contact: Dr. S. Simonovic  
E-mail: simonovic@uwo.ca

**OCTOBER 21-24**

*5th Asia-Pacific Conf. on Wind Engineering (APCWE V, formerly APSOWE V)  
Kyoto, Japan*

Chair: Prof. M. Matsumoto  
Contact: APCWE V Secretariat  
Department of Global Environment Engineering  
Kyoto University, Yoshida Honmachi, Sakyo-ku,  
Kyoto, 606-8501, Japan  
Ph: +81-75-753-5092 Fax: +81-75-761-0646  
E-mail: apcwe5@brdgeng.gee.kyoto-u.ac.jp  
<http://wwwsoc.nacsis.ac.jp/jawe/apcwe5>

**October 25, Kyoto, Japan**

*2nd International Workshops on Codification for Wind Loads*

*Satellite Workshop of the APCWE V*

Organized by Dr. J.D. Holmes  
Information Dr. J.D. Holmes  
E-mail jholmes@lsu.edu

**December 5-7, Kharagpur, India**

*Workshop on CFD (Golden Jubilee Celebration of IIT Kharagpur)*

Chaired by Prof. A.K. Ghosh

Contact Dr. K.P. Sinhamahapatra

Department of Aerospace Engineering

IIT Kharagpur, PIN 721302.

Phone: 91- 03222-83018 (O) 91- 03222-83019/78403, Fax: 91- 03222-55303

E-mail: kalyanps@aero.iitkgp.ernet.in, Web site: <http://www.iitkgp.ernet.in/acads/depts/aero/announce.html>

### 2002

**APRIL 4-6**

*ASCE Structures Congress & Exposition  
Denver, CO, USA*

Contact: Jim Rossberg, ASCE

E-mail: fcharney@schabel-eng.com

<http://www.asce.org/conferences/structures2002>

*May 21-25, Kiev, Ukraine*

*3rd East European Conference on Wind Engineering (3rd EECWE)*

Chaired by: Prof. A. Schidlovsky

Contact : Organizing Committee 3rd EECWE

Zhelyabova 8/4, Kiev, 03057, Ukraine

Fax: (+380 44) 446 42 29

E-mail: vgr@ihm.kiev.ua, Web site: [www.hydromech.kiev.ua/news.htm](http://www.hydromech.kiev.ua/news.htm)

**June 20-22, London, Ontario, Canada**

*Engineering Symposium to Honor Alan G. Davenport for his 40 Years of Contributions*

Contact: Alan G. Davenport Wind Engineering Group  
Boundary Layer Wind Tunnel Laboratory  
University of Western Ontario, London, Ontario, Canada  
N6A 5B9

Tel.: +1 519 661 3338; Fax: +1 519 661 3339

E-mail: agd-conf@blwtl.uwo.ca; Web site: [www.blwtl.uwo.ca](http://www.blwtl.uwo.ca)

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E-mail: Kishor.Mehta@WIND.TTU.EDU

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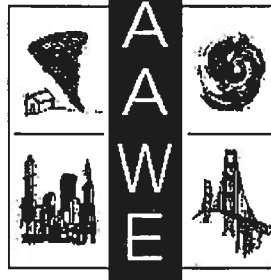
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**c/o Dept. Aerospace Engineering & Engineering Mechanics**  
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**Iowa State University**  
**Ames, IA 50011-2271**  
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