

KISHOR C. MEHTA
P.W. Horn Professor of Civil Engineering
Texas Tech University
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POSITION/HONORS

P.W. Horn Professor of Civil Engineering
Director, Wind Science and Engineering Research Center (1988-2003)
Interim Dean of Engineering May 1994 - February 1995
Member of the National Academy of Engineering (2004)
Distinguished member of the American Society of Civil Engineers (2001)

EDUCATION

University of Michigan, 1954-57, B.S. in Civil Engineering
University of Michigan, 1957-58, M.S. in Civil Engineering (Structures)
University of Texas at Austin, 1961-64, Ph.D. in Civil Engineering (Structures)
Wayne State University, 1966, five-week short course in Experimental Mechanics
Stanford University, 1967, three-week short course in Computer Methods

EXPERIENCE

Full-Time Faculty Status at Texas Tech University

Assistant Professor of Civil Engineering, 1964-70
Member of Graduate Faculty, 1969-present
Associate Professor of Civil Engineering, 1970-77
Professor of Civil Engineering, 1977-1991
P.W. Horn Professor of Civil Engineering, 1991- Present (part-time since retirement in 2003)

Professional Non-Faculty Experience

Design Engineer, Merritt-Chapman & Scott Corp., New York City, 1958-59
Design Engineer, Merritt-Chapman & Scott Corp., Glen Canyon Dam Construction Site, Page, Arizona, 1959-61
Principal, McDonald-Mehta Engineers, 1971-present (consulting practice on special projects)

Graduate Education

Supervised 12 Ph.D. candidates and 35 M.S. candidates during the past 35 years. In addition, served on over 50 supervising committees of graduate students during the same period. Graduate advisor for the department of civil engineering 1978-1992 and wind science and engineering 2003-present.
Developed a new Ph.D. degree in Wind Science and Engineering. The multidisciplinary degree is approved by the Texas Higher Education Coordinating Board in 2007 (14 graduates and 17 current as of 2010)

HONORS AND AWARDS

Meritorious Technical Paper, *Collapse of the Light Standards at Texas Tech*, Texas Section, ASCE, 1969.

Noteworthy Contribution to Civil Engineering awards for the papers by ASCE Texas Section, in 1974 for *Wind Energy*; in 1976 for *Tornado Resistant Design of Precast Concrete Buildings*; and in 1982 for *Valuable Information from Wind-Caused Damage in Hurricane Frederic*.

Young Engineer of the Year, in 1969 and Engineer of the Year in 1980, South Plains Chapter of the Texas Society of Professional Engineers.

Outstanding Engineering Professor, selected by the Engineering Student Council, Texas Tech University, in 1974 and 1980.

Halliburton Education Foundation Award of Excellence, College of Engineering, TTU, 1985, 1987 and 1988.

President's Award for Faculty Achievement in Teaching, Research and Service, Texas Tech University, 1986.

P.W. Horn Professor of Civil Engineering (Highest rank awarded to faculty by the university), Texas Tech University, 1991.

The ASCE-7 Wind Loads Task Committee, chaired by Dr. Mehta, received the 1997 Engineering Award from the National Hurricane Conference and an award of appreciation for the American Association of Wind Engineering.

Listing in Who's Who in Science and Engineering for 1998.

Outstanding Researcher, College of Engineering, 1993 and 1998.

National Hurricane Conference 2000 Distinguished Service Award for life-long contributions in the field of wind engineering to mitigate the impacts of hurricanes, 2000.

Strathmore's Who's Who listing for individuals who have demonstrated leadership and achievement in their occupation, industry or profession, 2000-2001.

Received (with Y. Al-Menyawi) the award for "Best of Session" of the Fall 2000 meeting of the Texas Section of ASCE for the paper, "Performance of unreinforced masonry walls during wind loading".

Elected to Distinguished Membership in American Society of Civil Engineers, October 2001. (ASCE has about 200 distinguished members out of 150,000 total members.)

Barney E. Rushing, Jr. Award, Parents Association of Texas Tech University, 2003

Induction into the National Academy of Engineering, 2004.

SYNERGISTIC ACTIVITIES

- 1) As Chairman of the task committee on wind loads of the American National Standards Institute Committee A58 and of the American Society of Civil Engineers Committee ASCE 7, played a major role in the development of the wind load provisions of the national standards ANSI A58.1-1982, ASCE 7-88, and ASCE 7-95.

- 2) Organized, with the American Association for Wind Engineering, a national public policy symposium in Washington, DC in November 1999. This symposium brought together professionals from throughout the country representing different aspects of windstorm research to reach a consensus on issues to be included in a national windstorm hazard mitigation plan.
- 3) Organizer and one of a team of teachers for annual professional short course in engineering for extreme winds held at Texas Tech University (1972 – 2005). Also developed and taught, with Drs. Joe Minor, Jim McDonald, Dale Perry and Richard Marshall professional short course, *wind loads on buildings and structures* for American Society of Civil Engineers. This course was taught at 30 locations around the country on the average of six times each year (1995 – 2006).
- 4) Has conducted and supervised windstorm damage documentation effort of Wind Science and Engineering Research Center for the past forty years. Some of the recent efforts are the Oklahoma City tornado of May 1999; the Tuscaloosa, Alabama, tornado of 2000; the Ohio, Alabama, and Tennessee tornado outbreak of 2002; Hurricanes Charley and Ivan of 2004; Central Florida tornadoes of 2007; and Super Tuesday tornadoes of 2008.
- 5) National Science Foundation sponsored, Colorado State University/Texas Tech University Cooperative Program in Wind Engineering, 1989-2000; Principal Investigator for Texas Tech involving 7 faculty.
- 6) Organized three major conferences at Texas Tech university; Tornado Symposium in 1976, Fifth Americas Conference on Wind Engineering in 1985, and Eleventh International Conference on Wind Engineering in 2003.
- 7) Developed a doctoral degree in Multidisciplinary (engineering, atmospheric sciences, and economics) Program in Wind Science and Engineering which was funded from 2003-2008 by NSF IGERT program for graduate student fellowships. The degree curriculum has been approved by the Texas Higher Education Coordinating Board in 2007. As of 2010 the number of graduates are 14 and current number of students are 17. A dozen faculty members participate in this degree program.

PROFESSIONAL COMMITTEE ACTIVITIES

Subcommittee on Wind Loads of the American Society of Civil Engineers/SEI Standards Committee ASCE 7 on Minimum Design Loads for Buildings and Other Structures (formerly American National Standards Committee A58), 1977-1996 Chairman, 1996-2001 member, 2001-2010 Distinguished member.

President, American Association for Wind Engineering, Inc. 1985-1989; Vice President, 1982-85; Member, 1977-present.

President, International Association for Wind Engineering, 1999-2003

Chairman, Eleventh International Conference on Wind Engineering, Texas Tech University, Lubbock, Texas, 2003

Chairman, Committee on Natural Disasters, Commission on Sociotechnical Systems, National Academy of Sciences, 1984-85; Member, 1981-86.

Chairman, Symposium on Tornadoes, Texas Tech University, Lubbock, Texas, 1976.

Director, Short Course on Design for Wind, ASEE-NSF-FEMA Summer Institute, 1971, 1986, 1988 and instructor in the annual course 1989-2003.

Chairman, Fifth U.S. National Conference on Wind Engineering, held at Texas Tech University, 1985.

Chairman, National Institute of Building Science Oversight Committee for Surge in HAZUS, 2009-present

Member, The Academy of Medicine, Engineering and Sciences of Texas (TAMEST), elected in 2004

Member, National Academy of Sciences Committee on Peer Evaluation of National Bio- and Agro-Defense Facility, 2009-2010.

Member, Committee on Wind Effects, Committee on Structural Dynamics, Structural Division, American Society of Civil Engineers, 1979-1982.

Member, International Editorial Board of *Engineering Structures*, published by IPC Science and Technology Press, 1979-1982.

Member, Ad-Hoc Panel on Lifeline Engineering, National Institute of Building Science, 1988-1989.

Member, Panel on Assessment of Wind Engineering Issues in the United States, National Research Council, 1989-1992.

Member of the Advisory Panel for the Hazard Response and Recovery Center, Texas A&M University, 1990-2000.

Member of the Advisory Committee for the Natural Hazard Mitigation Center, University of Puerto Rico, 1990-1994.

Member of the Advisory Committee for Roof Uplift Research, Metal Building Manufacturers Association 1991-1993.

Member, ASCE Committee on Electrical Transmission Structures, Subcommittee on Structural Loading, 1981-2003.

Member, ASCE Aerospace Division Committee on Aerodynamics, 1984-2000.

Corresponding Member, Wind Engineering Panel, ESDU International, Inc., England, 1984-2005.

Distinguished Member, American Society of Civil Engineers, 2001-Present; Fellow 1984-2001; member, 1966-1984.

President of High Plains Branch, Texas Section ASCE, 1969-70; member, 1966-present.

Member, National Society of Professional Engineers and Texas Society of Professional Engineers, 1967-present.

President, South Plains Chapter of TSPE, 1975-76; State Director, 1976-78; member, 1967-present.

Member Structural Engineering Association of Texas, 1985-present.

Member, American Concrete Institute, 1965 - present

Member, American Meteorological Society, 1997-present

Member, Sigma Xi and Chi Epsilon, 1968-present

Member, Wind Damage Mitigation Committee of the Insurance Institute for Property Loss Reduction, 1992-1995

Member, Advisory Board for the Global Center of Excellence in Wind Engineering, Tokyo Polytechnic University, Japan, 2009-present

Member, ASCE Policy Committee on Infrastructure, 2010 -2012

University Committee

College of Engineering Courses and Curricula, 1970-72

Texas Tech Soccer Team Faculty Sponsor, 1970-74

Texas Tech Courses and Curricula, 1972-74

Chi Epsilon Chapter Faculty Sponsor, 1974-75, 1988-2003

College of Engineering Tenure Committee, 1975-77 (Chairman), 1982-86 (Chairman)

Texas Tech Campus Emergency Committee, 1977-79

Code of Student Affairs, 1979-1982

College of Engineering Grade Appeals Committee, 1979-1985 (Chairman)

Peer Review Committee for Civil Engineering Department, 1981-82

Mediation Panel for Termination Procedure of a Tenured Faculty Member, 1982 (Chairman)

Senator from Engineering to Faculty Senate, 1982-1985; 1988-1991

College of Engineering Ad Hoc Tenure Policy Committee, 1984-1986

Financial Resources Committee of TTU for SACS report, 1992-93

Graduate Advisor for Civil Engineering Department, 1978-1991

Texas Tech University Strategic Planning Task Force, 1991-1994

Intellectual Property Committee, 1994-1998 (Chairman)

Civil Engineering Curriculum Committee, 1995-1997 (Chairman)

Faculty Workload Policy Committee, 1997-2000

The Institute of Environmental and Human Health (TIEHH) Strategic Planning Committee, 1998-99.

Chair, Faculty Research Award Committee, Whitacre College of Engineering, Texas Tech university, 2009-present

RESEARCH PROJECTS

Studies in Wind Engineering, sponsored by the National Science Foundation, with J.E. Minor, 1973-77, \$120,000.

Field Experiment for Wind Pressure, sponsored by the National Science Foundation, 1986-1990, \$353,000.

Colorado State University/Texas Tech University Cooperative Project in Wind Engineering, sponsored by the National Science Foundation, 1989-1994, \$157,000 for 1989-90, \$263,000 for 1990-91, \$380,000 for 1991-1992, \$420,000 for 1992-93, \$450,000 for 1993-94.

Vibration Mitigation of Traffic Signal Structures, Luminaires, and Signs, sponsored by Texas Department of Transportation, 1991-1994, \$280,000.

Wind Engineering and Fluid Mechanics Enhancement Program, sponsored by Texas Tech University, 1991-1992, \$94,000; 1992-93, \$94,000; 1993-94, \$120,000; 1994-95, \$75,000, 1995-96, \$50,000, 1996-97, \$25,000.

Mitigation of Hurricane Damage to Constructed Facilities, National Science Foundation, 1992-96, \$140,000.

Wind Load Standards Compliance, Florida Housing Finance Agency, \$275,000 for 1995-96.

Transmission Line Wind Loading, Florida Power and Light, \$104,000 for 1995-96.

Colorado State University/TTU Cooperative Wind Engineering Program, National Science Foundation, 1995-2000, \$1,630,747.

Design of Residential Shelters from Severe Winds, Greenhorne & O'Mara, \$90,000, 1997-1998.

Evaluation and Repair of Cable-Stay Vibrations, Texas Department of Transportation, \$145,277, 1997-1998.

Windstorm Mitigation Initiative, Cooperative Agreement with National Institute of Standards and Technology, PI, \$3.6 million, 1998-1999; \$1.2 million, 1999-2000; \$1,289,100, 2000-2001; \$1,588,900, 2001-2002; \$1.6 million, 2002-2003; \$1.2 million, 2003-2004; \$1.2 million 2004-2005.

Study of Stay Cable Vibrations, Texas Department of Transportation, PI, \$182,434 for 1998-1999, \$25,000 for 1999-2000.

The Development of an Integrated System of Instrumentation and Equipment to Measure Atmospheric Boundary Layer Winds and their Effects on Built Structures, National Science Foundation, Co-PI, \$212,545, 1999-2000.

Technology Service in Wind Mitigation, FEMA/TTU Cooperative Agreement, PI, \$100,000, 1999-2000; \$99,987 2000-2001; \$82,025, 2001-2002; \$90,000, 2002-2003; \$90,000, 2003-2004.

Computer Catastrophe Insurance Loss Models, (in conjunction with Texas Department of Insurance and the Weather Research Center), Foundation for Insurance Regulatory Studies in Texas (FIRST), \$99,779, 1999-2001.

Investigation of Wind/Rain Induced Stay Vibrations in Cable Stayed Bridges, Texas Department of Transportation, PI, \$162,000 for 1999-2000, \$120,000 for 2000-2001.

IGERT: Multidisciplinary Program in Wind Science and Engineering, National Science Foundation, \$2,258,557, 2002-2007.

Hyperspectral Imagery: A New Frontier for Windstorm Damage Assessment, National Science Foundation, Daan Liang, PI, \$180,000, 2009-2011.

Field and Wind tunnel Testing of Signs, International Sign Association and overhead Advertising Association of America, \$105,000, 2009-2011.

SHORT COURSES AND INVITED LECTURES

Engineering for Extreme Winds short course, Texas Tech University. Co-principal lecturer in 1972, 1973, 1974, 1975, and 1977. Director of the course in 1979, 1981, 1984, 1986, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000 2001, and 2002.

Co-principal lecturer in the ASCE Continuing Education short course on Wind Loads in Chicago, Baltimore, Boston and Honolulu in 1995; West Palm Beach, Sacramento, Irvine, Chicago, Charleston and Tampa in 1996; Raleigh, Kansas City, Orlando, Corpus Christi, Seattle and Las Vegas in 1997; Atlanta, Pittsburgh, Orlando, New York and New Orleans in 1998; Chicago, IL, Charleston, SC, New Orleans, SC, W. Palm Beach, FL, Houston, TX, and Washington D.C. in 1999; Denver, CO, Las Vegas, NV, and Charleston, SC in 2000; Dallas, TX, San Francisco, CA, Cleveland, OH, Seattle, WA, Tampa, FL, and Boston, MA, in 2001; Baltimore, MD, Orlando, FL, and Las Vegas, NV, Montgomery, AL, Cincinnati, OH and Omaha, NE,

Philadelphia, PA and Fort Lauderdale, FL in 2002; 8 locations in 2003; 8 locations in 2004; 3 locations in 2005.

Invited to lecture in short courses in Wind Loads on Buildings offered by the University of Missouri-Columbia in 1975 (Columbia), 1977 (St. Louis), 1978, 1981, 1982, 1983, 1984, 1985, 1986, 1990 and 1991 (Kansas City).

Invited to lecture in short courses in Design for Wind presented as a part of the ASEE-NSF-DCPA(FEMA)-DOE Summer Institute on Multiprotection Design in 1976, 1977, 1978, 1983, 1984, 1985, 1986, 1988, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002 and 2003.

Invited participant at the Second USA-Japan Research Seminar on Wind Effects on Structures, sponsored by the Japan Society for the Promotion of Science, the National Science Foundation, and Kyoto University, Kyoto, Japan, 1974.

Invited to lecture in short course on Structural Design for Disaster Conditions, sponsored by Florida Technical University and the American Society of Civil Engineers, Florida Division, Florida, 1978.

Invited to lecture in Seminar on Structural Engineering sponsored by the Nebraska Section of ASCE, Omaha, ME, 1979, 1987 and 1995.

Invited participant at the workshop of US-USSR bilateral agreement on exchange of information on building loads, Moscow, USSR, 1979.

Invited lecturer at short course on Modern Trends in Housing sponsored by the Structural Engineering Research Center, Adyar, Madras, India, 1980.

Invited lecturer, Structural Seminar sponsored by the New York City Metropolitan Chapter, ASCE, New York, NY, 1981.

Principal Lecturer at one-day seminar presented to personnel of Conoco, Inc., Ponca City, OK, 1983.

Invited participant, France/USA Workshop on Research in Civil Engineering, Paris, France, 1983.

Invited lecturer at CSIRO Building Division, Melbourne, Australia, 1983.

Invited lecturer at Southern Building Code Congress International (SBCCI) Codes Institute, Athens, GA, 1983.

Invited lecturer, Conference on Design Against Wind Induced Failures, Bristol, England, 1984.

Invited participant, India-U.S. Workshop on Wind Disaster Mitigation, Madras, India, 1985.

Invited participant, U.S.-Australia Workshop on Bins, Tanks and Silos, Sydney, Australia, 1985.

Invited keynote speaker, Third American Society of Civil Engineering Mechanics Specialty Conference on Dynamics of Structures, Los Angeles, California, 1986.

Invited speaker on the theme of Wind Flow Around Low-Rise Buildings, Seventh International Conference on Wind Engineering, Aachen, West Germany, 1987.

Invited speaker at the Wind Symposium sponsored by the International Conference of Building Officials, Osage, MO, 1987.

Invited participant at the International Workshop on Sensors and Measurement Techniques for Assessing Structural Performance, National Bureau of Standards, Gaithersburg, MD, 1988.

Invited lecturer, Wind Engineering Seminar: Overview and Perspectives, Structural Engineers Assn. of Washington, Seattle, WA, 1989.

Invited participant, U.S.-Japan Natural Resources 21st Panel on Wind and Seismic Effects meeting, Tsukuba, Japan, 1989.

Invited participant, UW0-MBMA Seminar on Wind Loads, London, Canada, 1989.

Invited participant, U.S.-India Binational Workshop on Advanced Construction and Material Technology, Madras, India, December 1990.

Invited participant, Workshop on Active Control of Structures, National Science Foundation, Washington, D.C., February 1991.

Principal lecturer on wind loads at the Short Course, "Wind, Snow and Earthquake Loads," sponsored by the American Society of Civil Engineers, St. Louis, MO, November 1991.

Plenary session lecturer, "Building Damage in Hurricane Andrew," National Hurricane Conference, Orlando, FL, April 1993.

Lecturer, "Guidelines for Design of Tornadoes," a one-day seminar offered at the workshop sponsored by the Department of Energy in Washington, DC, April 1993 and April 1994.

Presentation at NDLR in Charleston, SC, May 1993

Presentations of progress reports to Texas Department of Transportation personnel in Lubbock, TX (March 1993) and in McAllen, TX, Sept. 1993

Chaired a session on Wind Load Revision of ASCE 7-95 at the 7th U.S. National Conference on Wind Engineering, UCLA, Los Angeles, CA, June 1993

Chaired session on tornadoes at ASCE National Convention, Dallas, TX, Oct. 1993

Two presentations at Third Asia-Pacific Symposium on Wind Engineering, Hong Kong, Dec. 1993

Task Committee on Wind Loads ASCE 7, chaired meetings to develop ASCE 7-95 in Irvine, CA, April 1993, in Los Angeles CA, July 1993, in Chicago, IL, August 1993, in Washington, DC, May 1994, and in Washington, DC, November 1994.

Participation at NCPI Wind Damage Mitigation Committee meeting and presentation of progress report in Dallas, TX, March, June and August 1993; in Lubbock, Nov. 1993; in Amelia Island, FL, April 1994; Atlanta, GA, 1995; and Dallas, TX, 1996; and Corpus Christi, TX, 1996.

Chaired session, Bluff Body Aerodynamics, at Second International Conference on Wind Engineering, August, 1996, Colorado Springs, CO.

Presentation of Wind Load seminar to personnel of Texas Department of Insurance, August, 1996, Austin, TX.

Presentation of “Wind Engineering Research at Texas Tech,” to Mechanical Engineering Department of University of Auckland, New Zealand on March, 1997.

Presentation of “Wind Load Standards in the United States,” to staff of the Cyclone Testing Center, James Cook University, Townsville, Australia on March, 1997.

Presentation of “Wind Load Provisions of U.S. Standard ASCE 7-95,” seminar presented at Monash University, Melbourne, Australia; March, 1997.

Invited lecturer, “ASCE 7-95 Standard: Consensus and Compromise,” presented at Eighth U.S. National Conference on Wind Engineering, Baltimore, MD, June 5-7, 1997.

Presentation of “Wind Engineering Research at Texas Tech,” to faculty and students of University of Nevada at Las Vegas, December 4, 1997.

Presentation at FEMA Region IV Tornado Symposium, Atlanta, GA, April, 1998.

Presentation at National Tornado Forum, Washington, D.C., August, 1998.

Invited Presentation on ASCE 7-95 Wind Load Criteria, ASCE Minnesota Structures Division, Minneapolis, MN, September, 1998.

Panel moderator for “Wind speeds in tornadoes: What we know and what we don’t know,” as part of the Severe Weather Conference, sponsored by NWS and Wind Engineering, TTU, Lubbock, TX, February, 1999.

Presentation of Wind Effects seminar for Chang, Patel and Larby Consulting Engineers, May, 1999.

Short course on “Engineering for Gulf Coast Hurricanes, Galveston, TX, presented with Texas Department of Insurance personnel, May, 1999, 2000 and 2001.

Co-principal lecturer in the ASCE Continuing Education short course on “Design and Construction Guidance for Community Shelters,” Orlando, FL, and Kansas City, MO in 2001.

Wind Loads seminar presented to personnel of Westinghouse Savannah River Co., Aiken, S.C., November 2001.

Invited Lecture, National Conference on Wind Engineering, Roorkee, India, April 2002.

Invited speaker, SEAOT-Houston/Gulf Coast chapter monthly meeting, K. Mehta, April 2002.

Invited Speaker, “ Wind Science and Engineering Education Experiment”, Third International Symposium on Wind Engineering, Tokyo Polytechnic University, Tokyo, Japan, 2009.

Invited Speaker, “ Wind Hazard Resilient Cities: New Challenges”, Fifth International Symposium on Wind engineering, Tokyo Polytechnic University, Tokyo, Japan, 2011.

PUBLICATIONS

Refereed Publications

Valvekar, A.G., Teske, C.E., and Mehta, K.C., “Optimum design of indeterminate truss using geometric programming,” *Journal of Aeronautical Society of India*, 24(2), 1972.

Minor, J.E., Mehta, K.C., and McDonald, J.R., "Failures of structures due to extreme winds," *Journal of the Structural Division*, ASCE, 98(ST11), 1972, 2455-2472.

Mehta, K.C., "Wind energy," *Bulletin of the New Mexico Academy of Science*, 14(2), 1973, 35-40.

McDonald, J.R., Mehta, K.C., and Minor, J.E., "Tornado-resistant design of nuclear power plant structures," *Nuclear Safety*, 15(4), 1974, 432-439.

Mehta, K.C., Minor, J.E., and McDonald, J.R., "Wind speed analysis of April 3-4, 1974 tornadoes," *Journal of the Structural Division*, ASCE, 102(ST9), 1976, 1709-1724.

Minor, J.E., Mehta, K.C., and McDonald, J.R., "Air flow around buildings as reflected in failure modes," *ASHRAE Transactions*, 82(I), 1976, 1061-1071.

Minor, J.E., McDonald, J.R., and Mehta, K.C., "Hurricanes, tornadoes and extreme winds," Chapter 7 in the *Handbook of Building Security, Planning and Design*, McGraw-Hill Publisher, 1979, 7-1 through 7-19.

Minor, J.E. and Mehta, K.C., "Wind damage observations and implications," *Journal of the Structural Division*, ASCE, 105(ST11), 1979, 2279-2291.

Mehta, K.C., "Conference report on the Fifth International Conference on Wind Engineering," *Applied Mathematical Modeling*, IPC Science and Technology Press, 1979.

Peterson, R.E. and Mehta, K.C., "Meeting review: Workshop on wind climate, Asheville, NC," *Bulletin of the American Meteorological Society*, 61, 6, 1980, 573-577.

Mehta, K.C., McDonald, J.R., and Smith, D.A., "Procedure for predicting wind damage to buildings," *Journal of the Structural Division*, ASCE, 107, ST11, 1981, 2089-2096.

Peterson, R.E. and Mehta, K.C., "Climatology of tornadoes of India and Bangladesh," *Archives for Meteorology, Geophysics and Bioclimatology*, Series B, Springer-Verlag, Vienna, Austria, 1981, 345-356.

Mehta, K.C., Minor, J.E., and Reinhold, T.A., "Wind speed-damage correlation in Hurricane Frederic," *Journal of Structural Engineering*, ASCE, 109(1), 1983, 37-49.

Mehta, K.C., "Wind load provisions of the new ANSI standard," *Journal of Wind Engineering and Industrial Aerodynamics*, Elsevier Science Publishers B.V., Amsterdam, 14, 1983, 37-48.

Behr, R.A., Mehta, K.C., and Kiesling, E.W., "Concrete barrel arches for earth sheltered housing," *Structural Engineering Practice*, 2(4), 1983-84, 319-345.

Minor, J.E., Mehta, K.C., and McDonald, J.R., "Coping with hurricane hazards," *National Development Asia*, 24(5), July 1983, 89-90, 92-94, 97.

Mehta, K.C., "Wind load provisions of ANSI #A58.1-1982," *Journal of Structural Engineering*, ASCE, 110(4), April 1984, 769-784.

Mehta, K.C., "Wind induced damage observations and their implications for design practice," *Engineering Structures*, Butterworth Scientific Publishers, England, 6(4), 1984, 242-247.

- Behr, R.A., Mehta, K.C., and Kiesling, E.W., "Strength and stability of earth covered dome shells," *Journal of Structural Engineering*, ASCE, 110(1), 1984.
- Mehta, K.C. and Minor, J.E., "Wind loading mechanism on masonry construction," *The Masonry Journal*, Boulder, CO, 5(1), 1986, T1-T7.
- Lakas, B.D., Mehta, K.C., Kiesling, E.W., and Dunn, J.R., "Wind tunnel simulation of the Texas Tech research building: Effects of terrain features and building orientation," *Journal of Wind Engineering and Industrial Aerodynamics*, 36, 1990, 1073-1082.
- Ng, H.T. and Mehta, K.C., "Pressure measuring system for wind-induced pressures on building surfaces," *Journal of Wind Engineering and Industrial Aerodynamics*, 36, 1990, 351-360.
- Levitan, M.L., Mehta, K.C., Chok, C.V., and Millsaps, D.L., "An overview of Texas Tech's Wind Engineering Field Research Laboratory," *Journal of Wind Engineering and Industrial Aerodynamics*, 36, 1990, 1037-1046.
- Mehta, K.C. and Kadaba, R., "Field data analysis of electrical conductor response to winds," *Journal of Wind Engineering and Industrial Aerodynamics*, 36, 1990, 329-338.
- Levitan, M.L., Holmes, J.D., Mehta, K.C., and Vann, W.P., "Field measured pressures on the Texas Tech building," *Journal of Wind Engineering and Industrial Aerodynamics*, 38, 1991, 227-234.
- Levitan, M.L. and Mehta, K.C., "Texas Tech field experiments for wind loads, Part 1: Building and pressure measuring system," *Journal of Wind Engineering and Industrial Aerodynamics*, 41-44, 1992, 1565-1576.
- Levitan, M.L. and Mehta, K.C., "Texas Tech Field experiments for wind loads, Part 2: Meteorological Instrumentation and Terrain Parameters," *Journal of Wind Engineering and Industrial Aerodynamics*, 41-44, 1992, 1577-1588.
- Mehta, K.C., Levitan, M.L., Iverson, R.E. and McDonald, J.R., "Roof corner pressures measured in the field on a low building," *Journal of Wind Engineering and Industrial Aerodynamics*, 41-44, 1992, 181-182.
- Mehta, K.C., Cheshire, R.H., and McDonald, J.R., "Wind resistance categorization of buildings for insurance," *Journal of Wind Engineering and Industrial Aerodynamics*, 41-44, 1992, 2617-2628.
- Harris, H.H., Mehta, K.C., and McDonald, J.R., "Taming tornado alley," *Civil Engineering*, 62(6), 1992, 77-78.
- Letchford, C.W. and Mehta, K.C., "The distribution and correlation of fluctuating pressures on Texas Tech Building," *Journal of Wind Engineering and Industrial Aerodynamics*, 50, 1993, 225-234.
- Letchford, C.W., Sandri, P., Levitan, M.L. and Mehta, K.C., "Frequency response requirements for fluctuating wind pressure measurements," *Journal of Wind Engineering and Industrial Aerodynamics*, 40, 1992, 263-276.
- Harris, H.W., Mehta, K.C. and McDonald, J.R., "Design for occupant protection in schools," In: C. Church et al., eds, *The Tornado: Its Structure, Dynamics, Prediction, and Hazards*, American Geophysical Union, Washington, D.C., 1993, 545-553.
- Smith, D.A. and Mehta, K.C., "Investigation of stationary and nonstationary wind data using classical Box-Jenkins models," *Journal of Wind Engineering and Industrial Aerodynamics*, 49, 1993, 319-328.
- Yeatts, B.B. and Mehta, K.C., "Field experiments for building aerodynamics," *Journal of Wind Engineering and Industrial Aerodynamics*, 50, 1993, 213-224.

- Smith, D.A., Mehta, K.C., Yeatts, B.B., Bhavaraju, S.V., "Area-averaged and internal pressure coefficients measured in the field," *Journal of Wind Engineering and Industrial Aerodynamics*, 53, 1994, 89-103.
- Peterson, R.E., Goldstein, S.D. & Mehta, K.C., "Analysis of peak gust versus fastest-mile wind statistics," *Journal of Wind Engineering and Industrial Aerodynamics*, 54/55, 1995, 183-190.
- Gupta, H., Sarkar, P.P., Mehta, K.C., "Identification of parameters for vortex-induced response in time domain," *ASCE Journal of Engineering Mechanics*, 122(11), 1996, 1031-1037.
- Tieleman, H.W., Surry, D. and Mehta, K.C., "Full/model-scale comparison of surface pressures on the Texas Tech experimental building," *Journal of Wind Engineering and Industrial Aerodynamics*, 61, 1996, 1-23.
- Sarkar, P.P, Zhao, Z. and Mehta, K.C., "Flow visualization and measurement on the roof of the Texas Tech building," *Journal of Wind Engineering and Industrial Aerodynamics*, 69-71, 1997, 597-606.
- Ginger, J.D., Yeatts, B.B. and Mehta, K.C., "Internal pressures in a low-rise full-scale building," *Journal of Wind Engineering and Industrial Aerodynamics*, 72, 1997, 163-174.
- Naderi, H., "The Jarrell, Texas, tornado of May 27, 1997," answers to Mr. Naderi's questions provided by K.C. Mehta, J.R. McDonald and E.W. Kiesling, *Building Standards*, 66 (5), 1997, 6-9.
- Mehta, K.C. and Marshall, R.D., *Guide to the Use of Wind Load Provisions of ASCE 7-95*, 1998, American Society of Civil Engineers, Reston, VA.
- Sarkar, P.P, Mehta, K.C., Peterson, R.E. and McDonald, J.R., "The Texas Tech project for dissemination of wind engineering research and curriculum via electronic media," *Journal of Wind Engineering and Industrial Aerodynamics*, 77 & 78, 1998, 663-672.
- Unanwa, C.O., McDonald, C.O. Mehta, K.C., and Smith, D.A., "The development of wind damage bands for buildings," *Journal of Wind Engineering and Industrial Aerodynamics*, 84(1), 2000, 119-149.
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