

HONORS AND AWARDS – Distinguished Members, Class 2011



(photo left to right: ASCE Past President, Kathy Caldwell, Mohammed Ettouney, ASCE Executive Director, Pat Natale)

INSTITUTE MEMBER INDUCTED AS DISTINGUISHED MEMBER

The American Society of Civil Engineers recently recognized the accomplishments of an AEI member by inducting him as Distinguished Member, Class of 2011. **Mohammed M. Ettouney, D.Sc., P.E., F.AEI, Dist.M.ASCE** was formally inducted at the Celebration of Leaders Luncheon on October 20, 2011 in Memphis, during the 141st Annual Civil Engineering Conference.

Mohammed M. Ettouney, D.Sc., P.E., Dist.M.ASCE is a world-renowned engineer in the field of multi-hazard engineering. His solid technical background and contributions in the areas of earthquake engineering, shock and vibration, acoustics, blast, structural, and bridge engineering, machine foundations, hydrodynamic loads, and piping systems, and his innovations in the area of multi-hazard in infrastructure, non-vertically propagating seismic waves for nuclear reactors and long-span bridges, and progressive collapse gives him the necessary perspectives to envision multi-hazard engineering for being the pillar on which all hazards-engineering will be built in the near future.

Dr. Ettouney demonstrates the ability to bring together teams of experts and key stakeholders to promote the field of multi-hazard engineering. Many of these workshops, symposia and related events were sponsored or conducted as technical activities of ASCE or AEI committees on which Dr Ettouney has energetically served or provided leadership. Dr. Ettouney is highly respected not only for his engineering skills, but also for his strategic, forward-thinking views and his ability to transfer complicated theoretical knowledge and philosophies into practice. He is also a mentor for several young professionals in both industry and academia.

Dr. Ettouney has worked on projects funded by the Department of Homeland Security, National Institute of Standards and Technology, and Corps of Engineers to address various aspects of blast, structural and bridge engineering. His work on the original U.S. Embassy Anti-Terrorist Engineering Guideline and Protective Design for U.S. Embassies

in Moscow, Congo, Nigeria, Armenia, Ottawa, Canada, and Cairo, Egypt, the World Trade Center Control Room, Russian Storage Facilities, and JFK East Parking Garage attests to his standing in the professional community.

As a researcher, Dr. Ettouney has introduced a number of innovations in the theory of multi-hazards in infrastructure, in the area of non-vertically propagating seismic waves for nuclear reactors and long-span bridges, and in the theory of progressive collapse. He has introduced numerous new practical and theoretical methods in the fields of earthquake engineering, acoustics, structural health monitoring, progressive collapse, blast engineering, and underwater vibrations. He has had extensive involvement in the technical and standards development activities of ASCE's Structural Engineering Institute (SEI), and is a member of the Committee on Minimum Design Loads on Buildings and other Structures – ASCE/SEI 7. Dr. Ettouney's current technical activities include the study of the stochastic nature of progressive collapse, experimental techniques for building collapse, instrumentation theory, structural health monitoring in civil engineering and sensor placement for multiple hazards, nonlinear seismic soil-structure interaction method for long-span bridges. In 2008, Dr. Ettouney was inducted into the New Jersey Inventors Hall of Fame for pioneering work on the theory of multi-hazards of infrastructures and the theory of progressive collapse.

Dr. Ettouney is widely published, having written extensively about the relationship between earthquakes and blast, and co-invented the "Seismic-Blast" slotted connection. He has co-authored books on structural health and building security and is writing a forthcoming book, *Infrastructure Health in Civil Engineering*.

Distinguished Membership is the highest award the Society may confer, second only to the title of ASCE President. Members or Fellows elected to this prestigious and highly selective list have attained acknowledged eminence in a branch of engineering or its related arts and sciences. To learn how you can nominate an outstanding professional for Distinguished Membership, please visit <http://www.asce.org/awards> or contact awards@asce.org.