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Dr. Smilowitz has over twenty-eight years' experience designing and analyzing conventional and hardened structures subjected to dynamic shock and vibration loading. He has participated in the protective design and vulnerability studies of numerous Federal Courthouses, Airline Terminals, Financial Institutions and commercial properties. He has authored numerous papers on blast effects, protective design and mitigation strategies.

Dr. Smilowitz analyzed the World Trade Center underground parking garage slabs in response to the 1993 bombing, analyzed the Khobar Towers in response to terrorist vehicle bomb attack and was a member of the ASCE/FEMA Building Performance Assessment Team that documented the behavior of the World Trade Center and surrounding buildings in response to the events of September 11. He developed protective design retrofits of the Pentagon façade, that were implemented prior to and subsequent to the events of September 11. He is a member of the WTC Building Code Task Force Structures Working Group for the City of New York and was a co-chair at the NIST Workshop on Progressive Collapse. He provided technical support and advice for explosive testing of full-scale curtain wall mock-ups and full-scale 4 story structures at White Sands Missile Range. He participated in the development of curtainwall response analysis software for protecting structures from terrorist threat and is also the principal developer of the Ship Response to Underwater Explosion software. He is a member of ASCE.

Dr. Smilowitz received a BSCE from Cooper Union (1971) and both an M.S. (1973) and a Ph. D. (1977) from University of Illinois at Champaign-Urbana.