

建築物理研究センター講演会(第 143 回)ご案内

日時 平成 26 年 8 月 18 日 (月) 10:30-11:30 会場 すずかけ台キャンパス G5 棟 2 階 209 号室大会議室

Title: Researches on Blast resistance of glass façade in Tongji University

Abstract:

Recently, blast loading has become an important issue for glass facade as well as wind load, earthquake and temperature effect. The reason is that high-speed flying shards from the glass curtain wall is one of the main causes of the casualties in blast loading. To understand the dynamic performance and failure modes of glass façade subjected to blast loading, experimental and numerical researches have been carried out in Tongji University, which covers the mechanical properties of float glass and polyvinyl butyral (PVB), blast behavior of float glass panel and laminated glazing panel. Some suggestions are proposed for blast-resistance design of glass façade.

Speaker: Prof. Suwen Chen College of Civil Engineering, Tongji University

Dr. Suwen Chen is currently working as an associate professor in structural engineering at the College of Civil Engineering, Tongji University. She received her B.SC, M.SC degrees from Tianjin University in 1994 and 1997 respectively, and Ph.D degree from Tongji University in 2001. After that she visited Department of Civil & Structural Engineering, The Hong Kong Polytechnic University in 2001 and did her postdoctoral research in Multidisciplinary Center for Earthquake Engineering Research, University at Buffalo and University of California at Irvine from 2002 to 2004.

Her research interests include: 1) multi-hazard mitigation for steel structures, such as earthquake and following fire, 2) blast resistant analysis and design of glass curtain wall, 3) application of high performance steel.