

## Aging Buildings: Designing for Longevity

America's buildings are aging, creating a dilemma in which the U.S. is not alone. Insufficient funding in addressing deficiencies has left many of its institutions—especially those providing critical services of government, health care, higher education, and public safety—with inadequate facilities and little option of relocating or building anew. The problem is particularly acute in large urban areas, where space is scarce and growing populations (the U.S. is expected to increase 50 percent over the next 40 years) stress city support systems. At the same time, threats of accidents, natural disasters, and terrorism are increasingly imposing new safety requirements, leaving these institutions, and their architects and engineers, to face the daunting challenge of modernizing facilities after years of “too little too late.”

Given this situation, despite most of the nation's political and economic capital now focused on returning highways and bridges to sound condition, growing interest in sustainability should be raising awareness of the need not only to reduce overall energy and virgin material inputs, carbon emissions, and landfill waste, but also to design buildings in a way that increases their longevity.

In this symposium, **twelve leading researchers and practitioners** will in a series of presentations focus on issues that can impact longevity of the typical steel frame structure with glass curtain wall enclosure, using case studies to illustrate past performance and new practices that enhance it. The all-day program offers **valuable education** for **architects** and **engineers**, as well as **building owners, developers** and their **risk management** specialists. Each presentation will be by a recognized authority on their particular subject matter, organized to advance your thinking on designing for longevity and its economic considerations. Continental breakfast, lunch and refreshments are included in the registration fee, and attendees will earn **6.5 AIA/CES LUs (HSW/SD)** or **6.5 PDHs**.



**Steel and Ornamental Metal Institutes of New York**  
211 E 43<sup>RD</sup> STREET SUITE 804 NEW YORK NY 10017



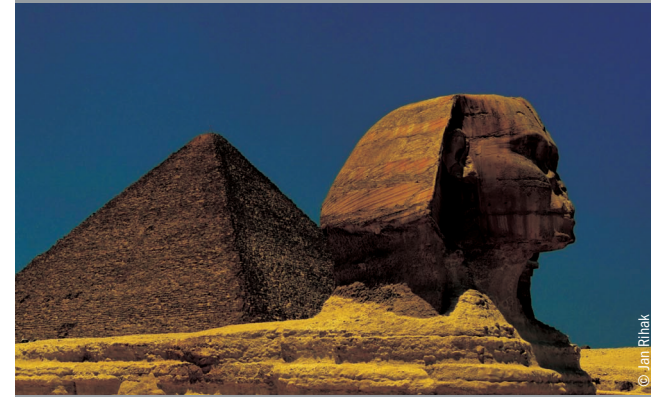
Register now at [www.aeinstitute.org](http://www.aeinstitute.org) for the symposium on Aging Buildings: Designing for Longevity sponsored by the Architectural Engineering Institute of ASCE and The Steel and Ornamental Metal Institutes of New York

presented by:

Architectural Engineering Institute of ASCE  
and the  
Steel and Ornamental Metal Institutes of New York

# Aging Buildings: Designing for Longevity

A Symposium on  
steel structures and curtain wall enclosures



8:30am—5:00pm WEDNESDAY  
DECEMBER 9, 2009

McGraw-Hill Auditorium  
1221 Avenue of the Americas  
New York, NY 10200

## **Aging Buildings: Designing for Longevity**

This symposium is the fourth in a series of programs organized and presented by the Architectural Engineering Institute (AEI) of ASCE and the Steel and Ornamental Metal Institutes of New York, each program developed to address issues of importance to current design and engineering practice. For this symposium—as for previous ones—the



steering committee has enlisted as presenters recognized leaders in the research and practical application of disciplines associated with the subject matter. In this way, the participating organizations continue their commitment to provide symposium participants with the latest and best information for understanding the issues. Cooperating organizations include The American Institute of Steel Construction (AISC), the Building Security Council (BSC), the Technical Council on Forensic Engineering of ASCE, and the National Institute of Building Sciences (NIBS).

—Mohammed Ettouney, Ph.D., P.E., F.AEI,  
*Principal, Weidlinger Associates and Chairman,  
Symposium Steering Committee*

## **The Symposium will cover the following important longevity issues:**

### *1 Innovations in Building Envelope Engineering*

Presenters—**Wilfried Laufs, Ph.D., LEED AP**, *Vice President  
Thornton Tomasetti, New York, NY*

### *2 Performance History of Curtain Wall and Glazing Systems*

Presenters—**Thomas A. Schwartz, PE**, *Senior Principal,  
President and Head of Building Technology Group, Simpson  
Gumpertz & Heger, New York, NY*

### *3 Recladding for Longevity*

Presenters—**Israel M. Berger, AIA**, *President, Israel Berger &  
Associates, New York, NY; and Jeff Heymann, Regional  
Director-Eastern Region, Benson Industries LLC, New York, NY*

### *4 Corrosion Engineering of Structural and Architectural Metals*

Presenter—**Ron Latanision, Ph.D.**, *Corporate Vice President  
and Director of Mechanics and Materials Practice, Exponent,  
Boston, MA; and Vincent Hock, F.NACE, ERDC-CERL*

### *5 Steel Frame Longevity*

Presenter—**Michel Bruneau, Ph.D., P. Eng.**, *Professor,  
Department of Civil, Structural and Environmental Engineering,  
University at Buffalo, Buffalo, NY*

### *6 Performance Lessons from Forensic Investigations*

Presenter—**David B. Peraza, PE**, *Principal Engineer,  
Buildings and Structures Practice, Exponent, New York, NY*

### *7 Longevity and Sustainable Design*

Presenter—**Robert C. Field, P.E., LEED AP**, *Associate,  
Robert Silman Associates, Washington, DC;*  
**John Cross, PE**, *Vice President for Marketing, AISC*

### *8 Concluding Remarks*

Presenter—**Mohammed Ettouney, Ph.D., PE, F.AEI**,  
*Principal, Weidlinger Associates and Chair, AEI Committee on  
Continuing Education*

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*Participants will receive a notebook with presentations and abstracts,  
as well as a certificate of attendance. AIA/CES LUs are earned by  
attending the entire program. Lunch will be buffet style in the  
gallery area.*

## **Online Registration:**

**[www.aeinstitute.org](http://www.aeinstitute.org)**

**Price: \$175 AEI, AIA, AISC, ASCE, BSC, SEAoNY  
members; \$225 others; includes lunch. Prices  
increase \$50 after 12/2/2009. Seating is limited.  
You must be preregistered to attend.**

**Contact: Amar Chaker, Ph.D., Director, AEI  
Tel: (703) 295-6393**