



# Advanced Preservation Technology Symposium

A symposium on value-based  
assessments, repairs, and  
enhancements to sustain historic  
buildings for the 21st century

**SIMPSON GUMPERTZ & HEGER**



Engineering of Structures  
and Building Enclosures

**25 September 2009**

**AIA Los Angeles  
Chapter Office  
Los Angeles, California**

Simpson Gumpertz & Heger Inc. (SGH) is a national, award-winning engineering firm that designs, investigates, and rehabilitates structures and building enclosures.

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1055 W. 7th Street  
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## About Preservation Technology

SGH's Preservation Technology practice delivers advanced technical services to owners, architecture and engineering firms, facilities managers, contractors, and other clients. With five offices across the country, including locations in Los Angeles and San Francisco, SGH employs specialist engineers and architects who understand the root causes of problems in historic buildings and can provide solutions that balance effective treatments, historic issues, and project budgets.

SGH provides specialist technologies for historic preservation, including: non-destructive surveys and testing; material analysis and testing; building materials conservation; condition assessment surveys; design of conservation master plans and historic structures reports; and seismic evaluation and retrofit. We also address historic building decay problems; the environmental performance and improvement of windows; the design and control of environments for museum and library collections management; and energy efficiency (conservation and generation).

SGH staff includes published authorities in building envelope and structural investigation and rehabilitation. Many of the company's senior staff chair ASTM and other standard-setting committees and contribute to higher education as visiting faculty.

## About The Symposium

This day-long SGH symposium is for architects, engineers, contractors, and owners concerned with the repair, restoration, rehabilitation, and continuing maintenance of historic buildings and structures of all ages, types, and material construction.

Attendees will learn about the latest techniques for documentation, analysis, testing, and modeling to help assess the performance, decay, and deterioration of historic structures, materials, and construction. The symposium will equip attendees with new awareness, knowledge, and understanding of the state-of-the-art methods of assessment, treatment, and enhancement of historic buildings as part of their sustainability strategies for the 21st century.







# Advanced Preservation Technology Symposium

Friday, 25 September 2009	8:00 a.m. - 7:00 p.m.
Registration / Coffee	8:00 a.m. - 8:30 a.m.
Welcome and Introduction	8:30 a.m. - 8:45 a.m.
Presentations and Discussions	8:45 a.m. - 5:30 p.m.

**Session 1: Advanced Preservation Technology**

Presented by John Fidler, RIBA FRICS  
Combining ethics, design, and appropriate technology to achieve sensitive, cost-effective, and sustainable improvements to the welfare and utility of historic buildings.

**Session 2: Stone and Brick Masonry Repair**

Presented by Brent Gabby, P.E.  
Applying structural monitoring, testing, and modeling to better understand the behavior of historic stone and brick masonry systems to effectively target and tailor repair options.

**Session 3: Terra-cotta Deterioration and Repair**

Presented by Carolyn Searls, P.E.  
Understanding manufacturing faults and deterioration mechanisms; using a methodological approach to condition assessment; devising appropriate remedial treatments can lead to more cost effective repairs.

**Lunch (not provided)**

**Session 4: Stucco Repairs**

Presented by Scott Pons, LEED AP  
Case study of the Caracol Tower, Southwest Museum, Mount Washington, Los Angeles

**Session 5: Strategies for Seismic Retrofit and the Repair of Earthquake Damage**

Presented by John Sumnicht, S.E.  
Achieving a strong but gentle touch through subtleties of structural analysis, design, and construction. Case studies will include the Sacramento Memorial Auditorium and 140 New Montgomery, San Francisco – involving performance-based analysis, modeling, and utilizing the archaic materials as part of the lateral load-resisting system; Clayton City Hall – strengthened with center-core technology; and Sacramento Rail Depot – where the proposal was to use Base Isolation.

**Closing Remarks & Panel Discussion 5:00 p.m. - 5:30 p.m.**  
**Cocktail Reception 5:30 p.m. - 7:00 p.m.**



SGH is registered with the AIA Continuing Education System. This symposium qualifies for 5.5 CEUs, all of which are HSW.



## Three easy ways to register:



BY WEBSITE (Preferred)



BY FAX



BY MAIL

Yes, I would like to register for the **Advanced Preservation Technology Symposium**.

**Registration:**

Please register no later than 21 September 2009.  
Register online at [www.aialosangeles.org](http://www.aialosangeles.org) (under CONTINUING EDUCATION CLASSES on the homepage).  
or Fax this form to 213.639.0767, Attn: Matt Krinsky  
or Mail to: American Institute of Architects, Los Angeles Chapter  
3780 Wilshire Boulevard, Suite 800  
Los Angeles, CA 90010  
Attn: Matt Krinsky

**Payment:**

Registration includes coffee, refreshment breaks, reception, and reference material.

- ☐ \$75 per person for AIA members
- ☐ \$135 per person for non-AIA members

I am paying by:

- ☐ Check enclosed (payable to Simpson Gumpertz & Heger Inc.)
- ☐ Mastercard ☐ Visa ☐ American Express

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Cardholder's Name (Please Print) \_\_\_\_\_

Signature \_\_\_\_\_

**Contact Information:**

Phone No. \_\_\_\_\_ Email Address \_\_\_\_\_

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**Venue:**

The Joint AIA/LA Historic Resources Committee / Simpson Gumpertz & Heger Symposium will be held at AIA Los Angeles Chapter Office in the Wiltern Center, 3780 Wilshire Boulevard, Suite 800, Los Angeles, CA 90010. The Wiltern Center is on the southeast corner of Wilshire and Western, in the Koreatown/Wilshire Center area. Red Line subway trains and buses 20, 21, 310, 481 and 720 stop at Wilshire and Western.

**Contacts on Day of Event:**

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