



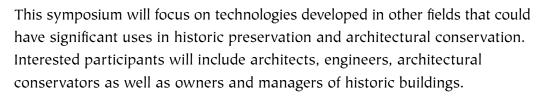
The Association for Preservation Technology and the New York Landmarks Conservancy

PRESENT

A One Day Symposium

State of the Art Techniques for Monitoring and Protecting Historic Structures

March 27, 2004
Columbia University
8:30 am -5:00 pm



The morning sessions will focus on emerging technologies for instrumentation and monitoring of structural movement in historic buildings. Professionals from several disciplines will discuss the application of fiber optics and global positioning systems as well as the integration of existing technologies for evaluating structural building movement.

Afternoon sessions will introduce and explore the application of cathodic protection systems to the preservation of historic steel frame buildings. Although well-proven in the shipbuilding, highway infrastructure, and petrochemical industries, cathodic protection has tremendous potential for protecting against corrosion of steel frame buildings.



Co-Sponsors

- Structural Engineers
 Association of New York
- Northeast Chapter of the Association for Preservation Technology
- Columbia University's Graduate School of Architecture, Planning, and Preservation



Saturday March 27, 2004 Columbia University

Avery Hall, Wood Auditorium 1172 Amsterdam Avenue New York City

8:30 am - 5:00 pm

Attendees will see and hear presentations on instrumentation for purposes of monitoring deterioration and structural integrity of historic buildings and monuments. Topics will also include cathodic protection of steel frame buildings.

Continuous monitoring of historic structures through the use of instrumentation has become increasingly common and is a useful method of assessing building damage, the efficacy of repairs, establishing cause and effect on surrounding buildings during construction, and for the validation of computer models.

Cathodic protection is a cutting-edge corrosion prevention technique proven after years of use in the shipbuilding, highway infrastructure and petrochemical industries. The large stock of early iron and steel framed buildings in both the United States and the United Kingdom has driven research into such a corrosion protection system. Only a very few limited projects in the United States have used cathodic protection against corrosion of steel frame buildings. Two of our speakers are from the United Kingdom, where this technology was pioneered, and they will share their experiences with us.

Participants are eligible for a total of 6 AIA Learning Units.

Morning Session

Fiber-Optic Monitoring of Building Movement: Federal Hall National Memorial

Dr. Jürgen Braunstein, Osmos, Germany **Marie Ennis**, P.E., Einhorn Yaffee Prescott, NYC

GPS: A New Tool for Structural Displacement Measurements

Dr. Tracy Kijewski-Correa and **Dr. Ahsan Kareem,** University of Notre Dame

Monitoring the Long-Term Performance of a Heritage Building: The Peace Tower in Ottawa

M. Nady Said, Institute for Research in Conservation,
Don Duchesne, Heritage Conservation Services, Canada

The Use of Velocity Sensors, Crackand Tilt-Meters to Measure the Effects of On-Going Construction Activity

Douglas Rudenko, Scott Kavalek, and **Mohamad Sharifinassab,** Vibra-Tech, Mt. Laurel, N.J.

Afternoon Session

Cathodic Protection: A Tool for the Repair of Early and Historic Steel-Framed Buildings

Peter A. J. Gibbs, P.E., Taylor Woodrow, UK

Practical Aspects of Cathodic Protection to Conserve Iron and Steel in Heritage Buildings

David Farrell and Kevin Davies, Rowan Technologies, UK

The Decision Making Process in the Application of Cathodic Protection

James Rhodes, FAIA, Beyer Blinder Belle, NYC



Symposium Registration

Register on-line at www.apti.org or fax form to: 888-723-4242

O Professional Rate: \$90 O Student Rate: \$45	: Charge Card Info
LUNCH INCLUDED for BOTH RATES	O Visa O Mastercard
Name	_ O American Express
Affiliation	
	Account Number
Address	_ :
	Expiration Date
Telephone	_
	Signature
Email	_ :
	•