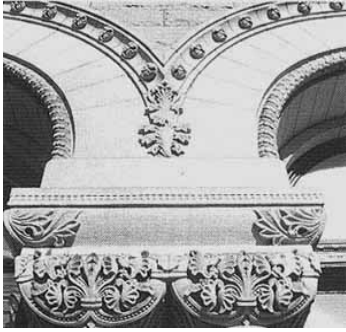


# R E S T O R E



## 2011-2012 Two-Semester Course on Masonry Conservation For Architects, Engineers, Craftworkers, Contractors, and Architectural Conservators , Cultural Resource and Facility Managers

**REGISTER NOW! Classes begin Tuesday, November 15, 2011. Earn 50 AIA Continuing Education Learning Units, 14 of which qualify for AIA Health, Safety, Welfare Credit.**  
[www.RESTOREtraining.org](http://www.RESTOREtraining.org)

**RESTORE** will begin its 35<sup>th</sup> year of evening classes for the Two-Semester Course on Masonry Conservation on Tuesday, November 15, 2011. Participants in the RESTORE Course include a cross section of design professionals, craftworkers, contractors, cultural resource and facilities managers, architectural conservators and preservationists.

**RESTORE** classes meet every Tuesday evening, from 6:00 p.m. to 8:00 p.m., from October to May at the at the New Church, 114 East 35th Street, New York, NY – between Park and Lexington Avenues. Laboratory and field workshop sessions are scheduled during April and May. To apply on line, visit the RESTORE website at [www.RESTOREtraining.org](http://www.RESTOREtraining.org). To contact RESTORE, please call (212) 749-1800, or by E-mail at [info@RESTOREtraining.org](mailto:info@RESTOREtraining.org).

**RESTORE** is a not-for-profit educational corporation that teaches people in the building industry about the technology of architectural conservation. RESTORE equips participants with a materials science foundation that is fundamental to all architectural preservation work. The RESTORE curriculum has been approved by the Professional Development Committee of the AIA. Graduates of the RESTORE Two-Semester Course on Masonry Conservation receive **50** AIA Continuing Education Learning Units, **14** of which qualify for AIA Health, Safety, Welfare credit.

**RESTORE** equips everyone on the job site to handle the complex preservation / conservation problems they encounter daily in the field. The RESTORE Course on Masonry Conservation covers a wide range of technical issues concerning materials and treatments. This knowledge is critical for the preservation and maintenance of existing buildings, and also applies to the design and construction of new structures. The RESTORE curriculum addresses:

- Problem analysis and causes of masonry deterioration
- Field and laboratory testing with a materials science focus on masonry conservation
- Technology of masonry cleaning, coatings, and consolidants
- Technology of masonry repair, mortar matching, repointing and replacement materials
- Special problems related to design and detailing
- Health and environmental hazards inherent in architectural preservation materials and processes



**RESTORE** Faculty consists of a team of nationally and internationally renowned building conservators, craftworkers, architects, engineers, chemists, geologists, materials consultants and an industrial hygienist. All have had many years of field experience and are recognized leaders in their areas of expertise. Senior RESTORE faculty members include:

**Norman R. Weiss** is an analytical chemist and a leading expert in masonry conservation. Mr. Weiss teaches conservation science at Columbia University's Graduate School of Architecture, Planning and Preservation. He has worked on numerous preservation projects both in the US and abroad.

**Frank G. Matero** is Past Chair of the Graduate Program in Historic Preservation at the University of Pennsylvania. He is founder and Director of the Architectural Conservation Laboratory at U. Penn. Mr. Matero, a leading authority in the field of architectural conservation, has worked on many major monuments both in North America and abroad and is the author of numerous technical articles on critical preservation /conservation issues.

**Monona Rossol** is a prominent authority on health and environmental hazards inherent in the arts and architectural conservation. Ms. Rossol founded and is the President of ACTS, the leading organization in this field. She is a leading member of a group of scientists that is writing guidelines to address the toxicity issues at Ground Zero in New York City. Ms. Rossol has taught and lectured throughout North America as well as abroad, and is a noted, award-winning author on this complex subject.



## RESTORE Two-Semester Course on Masonry Conservation Who Should Attend and Why

**RESTORE's** goal is to provide an essential core of architectural conservation knowledge to the design professionals and craftworkers involved in building conservation and preservation work. The curriculum covers a wide range of technical issues concerning materials and treatments. This RESTORE Course will also equip participants with essential information needed to analyze and resolve complex preservation problems related to workplace health and environmental hazards - whether their role is that of an architect, engineer, craftworker, contractor, building owner or manager or preservation consultant. The following are statements from previous RESTORE participants:

**Preservation Architect:** "I was greatly impressed with **RESTORE** - both the in-depth nature of the presentations and the clear manner in which the information was presented to us. RESTORE provides an outstanding and unique educational experience."

**Architect at a large municipal agency:** "I walked away from the **RESTORE** Course with organized information and the ability to act on what I had learned, which I found very rewarding and empowering!"

**Engineer, Project Manager:** "The **RESTORE** Course gave me a technical overview that is first-rate in its thoroughness . . . RESTORE equipped me with an understanding of materials science that is essential for all architectural preservation work whatever your role!"

**Masonry Contractor:** "I would like to thank **RESTORE** for making this outstanding educational experience available to contractors and craftworkers such as myself. The cross-section of people in the RESTORE Course and their different roles in the various facets of this industry made it possible for me to get viewpoints on issues that I had never been exposed to before. Many valuable discussions have occurred in our stone shop and on the scaffold due to the RESTORE Course. Sharing information has been rewarding and I feel the job site is a better place because of RESTORE's excellent training."

## RESTORE Two - Semester Course on Masonry Conservation Curriculum Outline 2011 - 2012

### November 2011

- Introduction and Course Concept: A Materials Science Strategy for Masonry Conservation
- Philosophy and Methodology of Preservation
- Criteria and Requisites for Preservation Work; Documentation and Analysis of Materials and Problems on Site and in the Laboratory
- Stone as a Building Material: Types and Properties

### December 2011

- Masonry Decay Processes, Parts I, II and III
- Architectural Ceramics: Properties and Manufacture

### January 2012

- Health and Environmental Hazards Inherent in Architectural Preservation Materials and Processes, Parts I - IV
- Technology of Cleaning Masonry Structures, Part I

### February 2012

- Technology of Cleaning Masonry Structures, Parts II & III
- Surface Treatments and Consolidants for Masonry Materials, Parts I & II

### March 2012

- Mortar and Stucco Manufacture, Analysis, Reproduction and Installation, Parts I & II
- Composite Repair Techniques for Stone, Parts I & II

### April 2012

- Mortar Analysis, Mortar Matching, Pointing and Caulking, Parts I & II
- Case Studies on Masonry Conservation
- RESTORE Conservation Lab Workshop: Analysis of Conditions on Site and in the Laboratory

### May 2012

- Field Workshop Sessions:
  - I. Traditional Techniques for Working in Stone
  - II. Replication of Architectural Ornament – Replacement Materials: Terra Cotta and Cast Stone

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