State-of-the-Art

MASONRY CLEANING WORKSHOP

AGENDA

Principles, technologies, and methodologies for cleaning historic masonry have been evolving for decades, and continue to evolve. In this workshop practicing professionals and contractors systematically present and demonstrate the current state-of-the-art in methods, issues, and best practices for cleaning. Earn 8.0 CEU credits for this one-day workshop. Suitable for both emerging and experienced practitioners in preservation.

Date: Friday, May 3, 2019
Venue: University of Oregon - White Stag Building
Address: 70 NW Couch Street, Portland, Oregon 97209
Time: 8:00am – 6:15pm

Friday, May 3, 2019

8:00 - 8:30 am Registration, Coffee, and Continental Breakfast

8:30 - 9:00 am Welcome and Introduction

Presenter introductions, sponsor acknowledgements, learning objectives, and introduction to the workshop beginning with the overarching questions – "Why Clean?"

Amy Lamb Woods, P.E., International Masonry Institute

9:00 - 9:50 am Understanding the Substrate

An overview of the material properties and characteristics of the substrates to be cleaned – stone, brick, terra cotta, and concrete/cast stone. Risk factors and counter-indicators for cleaning different types of materials – such as hardness or chemical interactions – will be discussed, as well as available test methods for substrates and their potential benefits to developing a cleaning program.

Amanda Thomas Trienens, Cultural Heritage Conservation, LLC

9:50 - 10:40 am Types of Soiling

The appropriateness and efficacy of different cleaning methods are directly related to the type of soiling to be mitigated or removed. This presentation will review the nature of different types of soiling – dirt/soot, efflorescence, salts, biologics, metallic or mineral staining, and graffiti, other paints and coatings, whether visible or not – and their susceptibility to removal.

Sarah Holder, PROSOCO, Inc.

10:40 - 11:00 am Break

11:00 - 12:00 pm Cleaning Methods Overview

An overview of currently available cleaning methods, how they work, and their suitability and risks for different substrates and soiling. Methods to be presented include:

- WATER – misting, low and medium pressure, hot water/steam
- CHEMICAL – detergent, acidic, alkaline, chelating agents, solvents, biocides
- POULTICE – materials, methods, and use with some chemicals
- MICRO-ABRASIVES – wet and dry micro-abrasive systems, dry ice
- LASERS – how they work, types available

New developments in research and/or trials on masonry cleaning will also be discussed.

Roy Ingraffia, International Masonry Institute

12:00 - 12:45 pm Lunch

12:45 - 1:15 pm Cleaning Parameters and Protocols

This presentation considers a number of parameters that surround and affect decisions on cleaning – beforehand and during the cleaning project. These include aligning the purposes of cleaning with expectations, who makes decisions and when, applicable standards, methods of specifying cleaning, developing a cleaning plan, and field considerations such as sequence of work, environment condition, protection, field testing, and mockups.

Amy Lamb Woods, P.E., International Masonry Institute

1:15 - 4:15 pm Demonstrations

Attendees will rotate through demonstrations of various cleaning methods by experienced contractors. Most demonstrations will be performed on the actual masonry of the building. Demonstrations will include the following categories of cleaning methods:

- Hot water and steam methods
- Wet micro-abrasive and water misting methods
- Dry micro-abrasive methods
- Chemical methods
- Poultices and latex waterless methods
- Laser cleaning methods

4:15 - 4:45 pm Q&A Panel Discussion

The day's activities will conclude with a panel discussion with the workshop speakers and demonstrators.

4:45 - 6:15 pm Cocktail and Appetizer Reception

Continue the dialogue with the speakers, demonstrators, sponsors, and attendees over drinks and appetizers at Old Town Pizza at 226 NW Davis St, Portland, Oregon 97209 (2 block walk).