

# 2018 HANDS-ON RESTORATION WORKSHOPS:



**Terra Cotta, Stone & Historic Concrete Repair  
Historic Repointing & Injection Grouting**

**Wednesday, February 21, 2018 -  
Thursday, February 22, 2018  
Plainville, CT**

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These two full-day programs are designed to provide owners, architects, engineers, contractors and conservators with a detailed, practical understanding of repair systems and mortars and methods for proper application. Through a combination of presentations, demonstrations and exercises, participants will learn the techniques and approaches needed to properly complete masonry repair and repointing projects. *Register for either day, or both days. Each course qualifies for 7 hours of Continuing Education credit (self-reporting).*

**TOTAL PARTICIPANTS WILL BE LIMITED TO 12 SO REGISTER QUICKLY - THIS EVENT WILL SELL OUT!**

## **February 21: Terra Cotta, Stone & Historic Concrete Repairs**

### **MATERIALS PERFORMANCE**

This workshop begins by illustrating the significance of each of the various materials properties for stone, concrete and masonry repair materials. Through examples and case studies, participants are then provided with an understanding of how to approach material selection.

### **COLOR AND APPEARANCE**

The best esthetic results rely on a combination of properly matched materials and suitable application techniques. This segment begins with an explanation of the basics of color science, and how those concepts are applied to masonry restoration work. Techniques for maximizing esthetic success, including various approaches to tooling, texturing, forming/pouring and exposure to aggregates are then illustrated through project examples and live demonstrations.

### **APPLICATION PROCESS**

Approaches to large-scale repair, replication of complex terra cotta glaze finishes, and the special issues revolving around wet terra cotta buildings are detailed. Particular attention is paid to properly sequencing work.

### **HANDS ON SESSIONS**

The workshops include live demonstrations and hands-on exercises, giving participants an opportunity to see and feel the various repair and refinishing systems used in terra cotta and stone repair, and to try their hands at basic composite repair. Particular emphasis is placed on how to create different textures and profiles, how to blend repairs with adjacent elements, and how to control color variations.

### **MATERIALS**

- **Composite Patching: Deep and Thin-Section Repair Mortars, Casting Mortars**
- **Adhesives and Primers**
- **Glaze Replacements and Faux Finishes**
- **Weathering Stains**

## **February 22: Historic Mortars & Repointing, Injection Grouting, Natural Cement, Natural Hydraulic Limes**

### **MATERIALS & PERFORMANCE**

This program begins with a review of the basic components, principals and standards applying to both modern and historic masonry mortars and grouts. Included are the basic chemistry of various types of limes and cements, aggregate selection criteria, proportioning guidelines for modern and historic mortars, applicable ASTM Standards, approaches to color control and issues in mortar analysis.

The component on injection grouting includes case studies and demonstrations. Selection criteria based on compatibility with existing masonry assemblies are discussed.

### **HANDS-ON & LIVE DEMO'S: TOOLS, PREPARATION, MIXING, FINISHING**

Live demonstrations and Hands-On exercises will be the focal points of the program, enabling participants to see and better understand the key principles, materials, techniques and issues relating to use of mortars for various types of repointing and rebuilding projects.

Preparation of masonry for repointing will be discussed and various tools and techniques will be demonstrated. Parameters for performing consistent, high quality work will be detailed. Options for designing repointing mixes for both contemporary and historic buildings and structures will be reviewed. Issues of field-mixed vs. prepackaged mortars, proportion vs. performance requirements, and proprietary vs. generic mortars will be discussed.

Microinjection grouting of a multi-wythe brick test wall will be demonstrated. Use of microinjection grouts for surface filling of fine stone and masonry cracks will also be demonstrated.

### **MATERIALS:**

- **Quicklime and Hot Mixing, Lime Putty, Lime Hydrate**
- **Natural Hydraulic Limes**
- **Natural Cement**
- **Portland Cement**
- **Aggregates for Mortar**
- **Injection Grouts**

### **COURSE INCLUDES:**

All materials, course notes, lunches, refreshments and use of a few basic tools. (Those who wish to bring their own tools are welcome to do so.) Certificates of Completion will be provided to all participants.

### **TRAVEL & LODGING**

Edison Coatings is located at 3 Northwest Drive, Plainville, CT.

**Intercity bus service** is available to Farmington, CT, and the terminal is a short drive from our plant. Edison Coatings can arrange pickup for participants arriving by bus.

The closest **airport** is Hartford/Springfield (BDL), about 35 minutes from our plant. Hartford is served by several major airlines, including Southwest, Delta, United, American, US Airways and Air Canada.

The **closest accommodations** are at the Fairfield Inn - Plainville, about 2 miles from our plant. The Farmington Marriott Hotel is 2 exits east of us; Holiday Inn Express and Motel 6 are on Queen Street in Southington, 1 exit west

### **FOR MORE INFORMATION CONTACT RICHARD DOANE AT EDISON COATINGS:**

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Online Registration: [CLICK HERE](#)