PERSONNEL QUALIFICATIONS

George Reo | Associate III

EDUCATION

- Northern Illinois University
  - Bachelor of Science, Geology 2014

PRACTICE AREAS

- Petrographic Evaluation
- Microscopy
- Laboratory Evaluations
- Chemical Analysis
- Facade Assessment
- Materials Evaluation and Research
- Evaluation of Natural Stone
- Historic Preservation

PROFESSIONAL AFFILIATIONS

- American Institute for Conservation
- Association for Preservation Technology International
- Geological Society of America

CONTACT

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EXPERIENCE

George Reo participates in various projects involving field and laboratory characterization of construction materials, including dimension stone, concrete, brick masonry, roofing materials, and tempered glass.

Mr. Reo conducts petrographic testing and chemical analysis on various materials with a concentration on stone (granite, marble, limestone, sandstone, slate, travertine, and composite stone panels) to investigate deterioration and determine the source of stains or discoloration on the materials. He also assists in laboratory and in situ testing programs of dimension stone materials to assess durability concerns and determine compliance with project specifications and industry standards.

REPRESENTATIVE PROJECTS

Petrographic Evaluation

- University of California, Santa Barbara, Storke Tower - Isla Vista: Evaluation of distressed concrete due to alkali-silica reactivity
- Various Buildings - Nationwide US.: Evaluation of fire-damaged concrete
- Herbert F. Johnson Museum of Art - Ithaca, NY: Evaluation of distressed concrete

Laboratory Evaluations

- Germantown High School - Germantown, WI: Evaluation of deteriorated pool deck system materials
- 1 Bush Street - San Francisco, CA: Evaluation of replacement paving materials
- Elysee Tower - Miami, FL: Evaluation of cracked stucco and paint
- Various Buildings - Nationwide US: Microscopical analysis of deteriorated or damaged roofing materials
- Various Buildings - Nationwide US: Evaluation of causes of fracture of tempered glass
- Various Locations - Worldwide: Evaluation of aggregate sources for use in concrete

Facade Assessment

- United States Military Academy - West Point, NY: Field petrographic evaluation of granite dimension stone deterioration and staining on multiple buildings
- Salt Lake Temple - Salt Lake City, UT: Field and laboratory characterization of quartz monzonite stone masonry staining; evaluation and documentation of various cleaning methods
- Holy Name Cathedral - Chicago, IL: Field and laboratory evaluation of limestone dimension stone deterioration and mortar repairs
- Milwaukee Federal Building - WI: Field microscopic evaluation of abrasive cleaning methods and retooling proposed for cleaning and restoration of historic granite facade

Materials Evaluation and Research

- THR Surgical Tower - Fort Worth, TX: Field evaluation of fractured ceramic tile

Evaluation of Natural Stone

- Obama Presidential Center - Chicago, IL: Evaluation of multiple quarries proposed as a source for dimension stone; laboratory evaluation of granite dimension stone proposed for construction
- Miami Center - FL: Laboratory evaluation of granite paver alteration
- Stone Arch Bridge - Minneapolis, MN: Laboratory petrographic evaluation of limestone dimension stone deterioration
- KPMG Lake House - Orlando, FL: Field and laboratory evaluation of discolored marble tile
- 15 Central Park West - New York, NY: Laboratory evaluation of stained granite panels
- Louis M. Klein Middle School - Harrison, NY: Laboratory evaluation of stained limestone-faced composite honeycomb panels
- 140 Broadway - New York, NY: Laboratory evaluation of granite dimension stone proposed for construction
- Utopia Sculpture - Grand Rapids, MI: Field evaluation of discolored marble units
- Salesforce Tower - Chicago, IL: Field and laboratory evaluation of discolored granite pavers
- Private Residences - Various Locations, US: Field and laboratory evaluation of discolored, stained, or deteriorated dimension stone