



PERSONNEL QUALIFICATIONS

George Reo | Associate III



EDUCATION

- Northern Illinois University
 - Bachelor of Science, Geology 2014

PRACTICE AREAS

- Petrography
- Laboratory Evaluations
- Stone Evaluation
- Facade Assessment
- Microscopy
- Aggregate
- Concrete
- Mortar

PROFESSIONAL AFFILIATIONS

- American Geophysical Union
- Geological Society of America

CONTACT

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EXPERIENCE

Since joining WJE, first as an intern in 2017, George Reo has participated in a variety of projects involving the laboratory evaluation and characterization of construction materials. His work includes petrography of concrete, mortars, dimension stone, aggregate, and other building materials. Mr. Reo also has field experience assessing abrasive cleaning techniques and retooling trials for restoration of historic granite façades.

Prior to joining WJE, Mr. Reo participated in graduate studies focusing on optical mineralogy, petrology, geochemistry and economic geology. His continued graduate research combines experimental method development and microanalytical techniques (electron probe microanalysis and laser ablation inductively coupled plasma mass spectrometry) to construct thermodynamic models of precious metal enrichment in magmatic sulfide ore bodies.

REPRESENTATIVE PROJECTS

Petrography

- Nebraska Department of Transportation - Omaha: I-480 concrete bridge corrosion investigation for service life modeling
- City Center Apartments - New Ulm, MN: Petrographic examination of concrete cores to determine the cause of pavement dusting
- Los Angeles Memorial Coliseum - CA: Petrographic examination of precast panels
- Kahului Elementary School, Building F - Kahului, HI: Assessment of fire damaged concrete and concrete masonry unit

Laboratory Evaluations

- Multiple Locations: Petrographic examination of aggregate samples for suitability of concrete aggregate
- Multiple Locations: Petrographic examination to determine glass content in blast furnace slag samples
- Gulfport-Harrison County Library - Gulfport, MS: Laboratory characterization of aggregate used in historic exposed aggregate panels

Stone Evaluation

- Robeson County Administration Building - Lumberton, NC: Laboratory evaluation of weathered marble cladding
- Obama Presidential Library - Chicago, IL: Laboratory characterization of Vermont marble proposed for construction
- Miami Center - Miami, FL: Laboratory evaluation of basalt and diorite surface alteration
- Horseshoe Bend National Military Park, Miller Bridge Piers - AL: Laboratory characterization of weathered granite stone
- Private Residence - CA: Laboratory evaluation and comparison of reclaimed antique Jerusalem limestone tiles
- Private Residence - CA: Petrographic and microanalytical evaluation of rust staining in white marble panels

Facade Assessment

- Milwaukee Federal Building - WI: Field microscopic evaluation of abrasive cleaning methods and retooling proposed for cleaning and restoration of historic granite facade