PERSONNEL QUALIFICATIONS

Susanne M. Papas | Senior Associate

EDUCATION

- John A. Logan College
  - Associate of Applied Science, Engineering & Applied Sciences, 1985
- Roosevelt University
  - Bachelor of Science, Chemistry, 2000

PRACTICE AREAS

- Analytical Chemistry
- Chemical Analysis
- Concrete Deterioration
- Inorganic/Organic Chemistry
- Materials Investigation
- Moisture-Related Flooring Failures
- Mortar Composition Analysis
- Wood Testing and Analysis
- X-ray Diffraction

PROFESSIONAL AFFILIATIONS

- ASTM International

CONTACT

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EXPERIENCE

Susanne Papas specializes in the chemical analysis of concrete, mortar, cement, cement raw materials, soils, paints, and wood products using a variety of wet chemical and electronic analytical methods. She has expertise in atomic absorption spectroscopy, UV/VIS spectroscopy, x-ray diffraction, and Fourier transform infrared spectroscopy (FTIR).

Ms. Papas began her career in chemistry as a lab technician for UOP, Inc., a petrochemical research corporation. Her duties included general analytical lab work on a variety of samples, including catalysts, oils, and smokestack residues. At Diagraph Corporation, she administered process control and quality procedures for products manufactured and performed programming and data analyses of field tests for products under development.

REPRESENTATIVE PROJECTS

Materials Investigation

- Allis Chalmers: Analyses of raw materials for the manufacture of portland cement for new plant assessments

Wood Testing and Analysis

- Fire Retardant Treated Plywood (FRT): Analyses and testing of FRT from multifamily residential projects for litigation support

Mortar Composition Analysis

- Historic Restoration: Analyses of mortars from historic and landmark structures for restoration purposes

Chemical Analysis

- Analyses and documentation to assess sulfate attack of numerous residential foundations and flatwork
- Studies to assess the availability of chloride in aggregate for corrosion evaluations
- Evaluation of aggregates for alkali-reactivity potential
- FTIR analyses of coatings
- Evaluation of grouts and leveling beds for unsoundness and expansion potential

TECHNICAL COMMITTEES

- ASTM C01 - Cement
- ASTM C01.23 - Compositional Analysis
- ASTM C01.28 - Sulfate Content
- ASTM C01.29 - Sulfate Resistance, past subcommittee secretary
- ASTM C09 - Concrete and Concrete Aggregates
- ASTM C09.26 - Chemical Reactions
- ASTM C09.26 - C289 Method for Potential Alkali-Silica, past chair
- ASTM C09.66 - Resistance to Fluid Penetration
- ASTM C09.67 - Resistance to the Environment
- ASTM C09.69 - Miscellaneous Tests, past chair
- ASTM C09.69 - Chloride Methods, Task Group chair