PERSONNEL QUALIFICATIONS

Heather N. Todak | Associate III

EDUCATION

- Virginia Polytechnic Institute and State University
  - Bachelor of Science, Civil Engineering, 2014
- Purdue University
  - Master of Science, Civil Engineering Materials and Structures, 2015

PRACTICE AREAS

- Nondestructive Evaluation
- Concrete Structures
- Testing and Instrumentation
- Historic Preservation
- Structural Evaluation
- Repair and Rehabilitation Design

REGISTRATIONS

- Professional (Civil) Engineer in CA

PROFESSIONAL AFFILIATIONS

- American Concrete Institute
- California Preservation Foundation
- Structural Engineers Association of Southern California

CONTACT

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EXPERIENCE

Since joining WJE in 2016, Heather Todak has worked on numerous projects involving concrete assessment and repair, structural evaluation, historic concrete inspections, and nondestructive testing. Her work has involved both existing structures and construction-period services.

Ms. Todak specializes in the application of nondestructive evaluation techniques for the assessment of concrete and masonry structural elements. She is an experienced practitioner in the fields of ground-penetrating radar (GPR), impact echo, ultrasonic shear wave tomography, and ultrasonic pulse velocity. She has investigated, tested, and provided repair recommendations for a wide variety of structures including bridges, high-rise concrete structures, parking structures, post-tensioned concrete structures, water treatment infrastructure, and historic buildings.

She is affiliated with several nondestructive testing related committees and subcommittees with the ACI, including technical committees 228 and associated subcommittees through which she has assisted in the development of several ACI documents and certification programs.

REPRESENTATIVE PROJECTS

Nondestructive Evaluation

- Rinconada Water Treatment Plant - Los Gatos, CA: Reinforcement cover assessment and repair design
- Electrical Power Research Institute (EPRI) - Charlotte, NC: Nondestructive evaluation capabilities research study for reinforced concrete elements and grouted post-tensioning ducts
- Trimont Condominiums - Pittsburgh, PA: Concrete facade evaluation with electromagnetic scanning methods
- Berkshire Dilworth Apartments - Charlotte, NC: Detection of PVC plumbing lines in interior wall systems
- Lone Star Legal Aid Building - Houston, TX: Fire damage-related assessment of concrete framing

Concrete Structures

- 901 East 3rd Street - Los Angeles, CA: Nonductile concrete building assessment
- The Ritz-Carlton Hotel - Laguna Niguel, CA: Parking structure evaluation and repair of post-tensioning components
- Susquehanna Nuclear Power Plant - Susquehanna, PA: As-built survey of reinforcement and embedments for structural modifications
- Colorado Center Tower 3 - Denver, CO: Evaluation and repair of joints between precast concrete columns

Testing and Instrumentation

- United States Coast Guard - Sector San Juan, Puerto Rico: Fast response cutter pier investigation, including structural assessment, service life modeling, instrumentation, and load testing
- Puente Hills Recycling Facility - Whittier, CA: Reinforced concrete placement and finishing evaluation
- USC Pacific Asia Museum - Pasadena, CA: Basement moisture investigation and monitoring

Historic Preservation

- John Anson Ford Amphitheatre - Los Angeles, CA: Historic concrete evaluation and repair documents
- Church of Christ Scientist - Santa Barbara, CA: Structural evaluation and damage assessment
- Washington National Cathedral - Washington, D.C.: Post-2011 Virginia earthquake Damage documentation

Structural Evaluation

- King Edward Apartment Building - Pittsburgh, PA: Structural evaluation of existing concrete columns
- Leo Baeck Temple - Los Angeles, CA: Concrete retaining wall investigation
- 442 West Ocean Boulevard - Damage evaluation and repairs for structural slab movement during construction phase