

### Thomas L. Lee | Specialist



#### EDUCATION

- Motlow State Community College
  - Associate of Science, 2004
- Middle Tennessee State University
  - Bachelor of Science, Concrete Industry Management, 2007

#### PRACTICE AREAS

- Laboratory Testing
- Materials Evaluation and Research
- Research and Testing
- Nondestructive Evaluation
- Construction Observation Services
- Construction Troubleshooting

#### CONTACT

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#### EXPERIENCE

Thomas Lee performs various duties in the Austin office materials laboratory, including laboratory materials evaluations of concrete and concrete materials as well as assisting with petrographic examinations. Experienced in both destructive and nondestructive testing, he also assists with engineering field investigations and assessment of various concrete structures. Mr. Lee participates on the quality systems management team, which oversees and maintains the laboratory accreditation requirements. He is frequently at the forefront of research and development projects undertaken at the Austin office. Prior to joining WJE in 2006, Mr. Lee achieved the master carpenter status before moving into management of light construction jobs for Coleman Construction and Hudson Builders in Nashville, Tennessee.

#### REPRESENTATIVE PROJECTS

##### Laboratory Testing

- Hornsby Bend Digester Tank - Austin, TX: Assessment of alkali-silica reactivity (ASR) related cracking in tank walls
- Palo Verde Water Reclamation Facility - Tonopah, AZ: Assessment and research of repair materials
- Standard ASTM International physical testing of aggregates, concrete, and concrete-related products such as mortars, grouts, and admixtures

##### Materials Evaluation and Research

- California Department of Transportation: Development of mitigation measures for ASR in California's highway infrastructure
- Institute of Korea: Construction quality testing of materials for highway bridges in Korea
- LBJ Presidential Library and Museum - Austin, TX: Materials evaluations for plaza investigation and assessment
- LCRA Chimney Foundation Investigation - La Grange, TX: Assessment of damaged reinforced concrete chimney foundation

- Titan Development for RREEF Engineering - Chicago, IL: Materials evaluations as part of for radial cracking investigation covering multiple facets of slab construction
- Williams Tower - Houston, TX: Davit testing

#### Research and Testing

- Investigation of ASR potential of aggregate
- Laboratory assessment of precast facade panels with delayed ettringite formation
- Correlation of concrete properties with relative humidity test drift

#### Nondestructive Evaluation

- Baylor University - Waco, TX: Moisture testing of below-grade CMU block walls using in situ probes
- Edinburg High School - Edinburg, TX: Moisture vapor emissions rate (MVER) testing of concrete floor slab
- Major Retail Store - Manor, TX: MVER testing of concrete floor slab

#### PROFESSIONAL AFFILIATIONS

- American Concrete Institute, Central Texas chapter vice president
- American Society of Certified Engineering Technicians, Austin chapter president
- ASTM International
- International Concrete Repair Institute

#### REGISTRATIONS

- ACI Certified Aggregate Testing Technician
- ACI Certified Field Testing Technician
- ICRI Concrete Slab Moisture Testing Technician - Grade 1