

SHAWN MCCORMICK
Testing, Engineering & Consulting Services Inc.
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PROFESSIONAL EXPERIENCE

TESTING, ENGINEERING & CONSULTING SERVICES – Lawrenceville, GA **2004-Present**
President and Laboratory Principal – Construction Materials

Serves as a Laboratory Principal of an AASHTO R18 and ISO 17025 accredited Testing firm, which specializes in facilities engineering, restoration and repair design, and field/laboratory construction materials testing.

Current ASTM Executive Committee officer for C09 on *Concrete and Concrete Aggregates* and C01 on *Cement*, Sub-committee Chairman for C09.62 *Abrasion Testing*, Vice-committee Chairman for C01.29 *Sulfate Resistance* and Task Committee Chairman for ASTM C928 *Standard Specification for Packaged, Dry, Rapid-Hardening Cementitious Materials for Concrete Repairs*. Past president of Georgia ACI local chapter. Experiences include attending Georgia Chapter of American Concrete Institute (ACI) monthly meetings, the bi-annual American Society for Testing and Materials meetings (ASTM), the annual National Transportation Product Evaluation Program (NTPEP) meeting and the bi-annual International Concrete Repair Institute (ICRI). Mr. McCormick has written precision and bias statements for ASTM, organized and reported round robin testing for various ASTM sub-committees, and has help author several ASTM specifications and guidelines. Mr. McCormick is currently working with others to develop ASTM testing procedures for anti-washout, abrasion, and anti-segregation for concrete and cementitious based products. Mr. McCormick also serves as an examiner for ACI for certifications in Laboratory Technician Grade I & II, Aggregate Technician Level I & II, Strength Technician and Field Technician.

Performs concrete mix designs, physical, chemical and analytical testing of concrete, cement, aggregates, pozzolans, admixtures, epoxies, coatings, metals, and other constructions materials in accordance with the required ICC-ES, ASTM and AASHTO test methods and guidelines. Manages and trains technicians in laboratory and field testing and hires new technicians. Responsibilities include maintaining the quality assurance and quality control program, developing and maintaining client relations, marketing, managing multiple high profile projects, and cost estimates.

Law Engineering Inc. (Now Wood Group) – Atlanta, GA **1985 to 2004**
Laboratory Manager, Principal Technician and Project Manager – Construction Materials

Responsibilities included involvement in Law Engineering's asbestos program providing project management, work observation and documentation of asbestos removal, air monitoring during asbestos abatement, performing asbestos investigations, and asbestos consulting.

In 1997 Mr. McCormick was transferred to the Construction Materials Laboratory. His new responsibilities included supervision and management of the Cement, Concrete and Constructions Material Testing Labs. The labs performed testing of concrete, fiber reinforced concrete, cements, aggregates, fly ashes, admixtures, concrete coatings and other cement and concrete materials. He developed several new clients and obtained large annual contracts. Under Mr. McCormick supervision, the Cement and Concrete Laboratories grew from a two to six employees and profits grew by over 50%. Responsibilities included: marketing, billing, project management, equipment maintenance and calibrations, keeping the laboratory current in the CCRL proficiency program, and maintaining accreditation in AASHTO and AMRL.

CERTIFICATIONS

American Concrete Institute Laboratory Technician Grade I
American Concrete Institute Laboratory Technician Level I
American Concrete Institute Laboratory Technician Grade II
American Concrete Institute Strength Testing Technician
American Concrete Institute Aggregate Testing Technician Level I
American Concrete Institute Field Testing Technician
Georgia Concrete and Products Association Structural Masonry Specialist

PROFESSIONAL AFFILIATIONS

Member of American Concrete Institute (ACI)
Past President of Georgia Chapter of American Concrete Institute (ACI)
Past Vice President of Georgia Chapter of American Concrete Institute (ACI)
Member of the American Society for Testing and Materials (ASTM)
Member of the International Concrete Repair Institute (ICRI)

ASTM

Executive Committee 2014-Present

Committee C01 Cement, Lime Gypsum
Committee C01.10 Hydraulic Cements
Committee C01.13 Special Cements
Committee C01.22 Workability

Vice-Committee Chair 2017-Present

Committee C01.29 Sulfate Resistance
Committee C01.30 Time of Set

Executive Committee 2014-Present

Committee C09 Concrete and Concrete Aggregates
Committee C09.21 Lightweight Aggregates
Committee C09.22 Materials Applied to Concrete
Committee C09.23 Chemical Admixtures
Committee C09.23.04 Durability Enhancing Admixtures
Committee C09.23.06 Cold Weather Admixtures
Committee C09.23.07 Anti-Washout Admixtures
Committee C09.40 Ready-Mixed Concrete
Committee C09.42 Fiber-Reinforced Concrete
Committee C09.43 Section on Self Leveling Materials
Committee C09.43 Sections C381, C928, C1107

Task Group Chair 2004-Present

ASTM C928 Pre-Packaged Rapid Set Materials
Committee C09.46 Shotcrete
Committee C09.47 Self-Consolidating Concrete
Committee C09.49 Pervious Concrete

Subcommittee Chairman 2015- Present

Committee C09.50 Alkali Aggregate Reactions
Committee C09.62 Abrasion Testing
Committee C09.98 Evaluation of Laboratories
Committee C12 Mortars and Grouts for Masonry
Committee C15 Manufactured Masonry Units
Committee C15.03 Concrete Masonry Units
Committee C15.11 Stone Masonry Veneer

Technical Representative

Committee F08 Sports Equipment and Facilities
Committee F08.18 Treestands

ICRI

Secretary 2016-Present

Committee 320 Concrete Repair Materials
Committee 310 Surface Preparation
Committee 110 Guide Specifications
Committee 710-D Protective Polymer Flooring Sys.
Committee 710-E Grouting

AREAS OF TECHNICAL EXPERIENCE

Failure analysis and forensic: Testing using non-destructive evaluation/petrographic analysis

Metals & plastics: Mechanical properties, shear, flexural, tensile, direct tensile embedment, strain gages, field data acquisition systems, PT cable tension tests, and anchor systems

Coatings: epoxy based, organic, thermal insulating, stucco, polymer, wax emulsions, and Urethanes

Aggregates: Lightweight, normal, and heavy weight, fine, ASR, dimension stone

Admixtures: Experience utilizing and designing with all types of admixtures A through F and Type S, viscosity modifiers, shrinkage reducing, ASR reducing, redispersible polymers, latex, dry admixtures, corrosion inhibitors, anti-washout and mix stabilizers

Cements/Supplementary Materials: slag, fly ash, metakaolin, portland cement, calcium aluminate cement, calcium carbonate, glass, masonry cements, sulfur aluminate cements, and wollastonite

Concrete Mix Design/Optimization: Tertiary concrete mix design experience utilizing numerous admixtures, slabs on grade, pavement, latex concrete– polymer modified, fiber reinforced concrete, shotcrete, pre-cast, GFRC, lightweight/cellular, rapid setting concrete, overlays, EPS foam coats, stone veneer, roller compacted, and pervious

Fiber Reinforcement: Macro/Micro synthetic, steel, glass, blast containment, extensive work in evaluation of technical data and design of FRC and shotcrete, fiber product development, and residual analysis

Repair Products/Mortars: Task Committee Chairman for ASTM C928, self-leveling under-laments, rapid setting patch materials, non-shrink grouts, masonry mortars, masonry block, extensive experience with DOT/ASHTTO requirements for rapid setting repair materials, and product development

TECHNICAL PROJECTS

Savannah River Site (MOX)

Concrete design for Nuclear Waste Storage,
Testing of Cement, Pozzolons and Aggregates

Oak Ridge Nuclear Site

Concrete design for Nuclear Waste Long Term
Storage Vault

Cherry Hill

Testing of Cement, Pozzolons and Aggregates

Plant Vogtle

Concrete Design for Reactor Repair

Atlanta Airport

Concrete Designs for Runway, Taxiways and
Rapid Set Repairs

Archer Western

Concrete Pavement Designs for I75 & I85

Apac

Concrete Pavement Designs for Multiple Roads
and Highways

McCarthy

Concrete Pavement Designs for Alabama Hwy 62

Union Pacific

Testing of Freeze Thaw Damage to Rail Road Ties
and Consulting for Quality Control of Concrete
Designs

Tensar

Development of Cementitious Product Line for
Asphalt Overlays

U.S. Embassy, Gabon, Africa

Concrete Mix Design and Testing

NY Eastside Access Project

Shotcrete Mix Design and QA Testing

NY 2nd Avenue Subway

Cast in Place FRC Mix Pre-Construction Testing

NY No. 7 Line

Shotcrete QA

NY Freedom Towers

Preconstruction Testing

South River Tunnel, Atlanta, GA

Shotcrete Evaluation and QA Testing

South Cobb Tunnel, Atlanta, GA

Shotcrete Evaluation and QA Testing

Niagra Falls Tunnel Project

Cast in Place FRC Mix Pre-Construction Testing