

SHAWN MCCORMICK

Material TEC

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PROFESSIONAL EXPERIENCE

Material TEC – Laboratory Principal – August 2025 - Present

SGS TEC Services - Business Development Manager & Laboratory Principal – July 2021 – August 2025

SGS TEC Services - General Manager and Laboratory Principal – April 2019 to July 2021

TEC Services - President & Laboratory Principal - May 2009 to April 2019

TEC Services. - Laboratory Manager & Principal – January 2004 to May 2009

Law Engineering/Matec Engineering – Laboratory Manager & Principal January 2001 to January 2004

Law Engineering – Cementitious and Concrete Laboratory Manager 1992 -2001

Law Engineering – Project Manager – 1985 to 1992

Currently serves as a Laboratory Principal for Material TEC an AASHTO R18 accredited testing firm, which specializes in facilities engineering, restoration and repair design, and field/laboratory construction materials testing. Helping to start and grow Material TEC into a nationally recognized construction materials testing laboratory.

ASTM C09 *Award of Merit* winner, past ASTM Executive Committee officer for C09 on *Concrete and Concrete Aggregates* and C01 on *Cement*, past Sub-committee Chairman for C09.62 *Abrasion Testing*, Sub-committee Chairman for C01.29 *Sulfate Resistance*, Sub-committee Chairman for C09.43 *Packaged Dry Combined Materials*, 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 AASHTO Product Evaluation & Audit Solutions (APEAS) 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.

CERTIFICATIONS

American Concrete Institute Laboratory Technician Level I

American Concrete Institute Laboratory Technician Level II

American Concrete Institute Strength Testing Technician

American Concrete Institute Aggregate Testing Technician Level I

American Concrete Institute Aggregate Testing Technician Level II

American Concrete Institute Field Testing Technician

American Concrete Institute Self-Consolidating Concrete 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)

	<u>ASTM</u>	
Past Executive Committee 2014 - 2020	Committee C01	Cement, Lime Gypsum
	Committee C01.10	Hydraulic Cements
	Committee C01.13	Special Cements
	Committee C01.22	Workability
Past Subcommittee Chairman 2017 - 2024	Committee C01.29	Sulfate Resistance
	Committee C01.30	Time of Set
Past Executive Committee 2014 - 2020	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
Subcommittee Chairman 2024 - Present	Committee C09.43	Packaged Dry Combined Materials
Task Group Chair 2002 - Present	ASTM C928	Pre-Packaged Rapid Set Materials
	Committee C09.46	Shotcrete
	Committee C09.47	Self-Consolidating Concrete
	Committee C09.49	Pervious Concrete
	Committee C09.50	Alkali Aggregate Reactions
Past Subcommittee Chairman 2015 - 2024	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
	Committee F08	Sports Equipment and Facilities
Technical Representative	Committee F08.18	Treestands
	<u>ICRI</u>	
	Committee 320	Concrete Repair Materials
Secretary 2016-Present	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 concrete.

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