



*Curriculum Vitae of*  
**DR. JAMES J. CONNORS**  
**Professional Hydrologist and Geoscientist/Geologist**

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**AREAS OF EXPERTISE**

Environmental contamination (groundwater, surface water, soils, sediments, particulates)  
Stormwater (runoff, flooding, erosion, sedimentation)  
General hydrology (surface-water and groundwater flow, stream and marine hydrodynamics, etc.)

**DEGREES**

Ph.D., University of South Alabama, Marine Sciences, 2007  
M.S., University of Alabama, Geology, 1990  
B.S., University of South Alabama, Geology, 1983

**LICENSES, CERTIFICATIONS**

Certified Professional Hydrologist: American Institute of Hydrology (No. 23H05014)  
Licensed Professional Geoscientist: Louisiana (No. 80), Texas (No. 4065)  
Licensed Professional Geologist: Alabama (No. 1468), Georgia (No. PG002491), Mississippi (No. 0941), New York (No. 311)  
Certified Stormwater, Erosion, and Sedimentation Control Inspector: Florida (No. 40130)

**PROFESSIONAL AFFILIATIONS**

American Institute of Hydrology: Member, Board of Directors, Treasurer  
Geological Society of America: Life Member, Member of the Membership and Fellowship Committee, Past Member and Chair of the Professional Development Committee, Member of the Southeastern Section and Hydrogeology Division  
International Association of Hydrogeologists: Member  
Sigma Xi (The Scientific Research Honor Society): Inductee/Member, Past Chapter President  
Sigma Gamma Epsilon (The National Honor Society for the Earth Sciences): Inductee/Life Member

**AWARDS AND HONORS**

Elected Treasurer/Board of Directors, American Institute of Hydrology, 2024  
Named one of the *50 Outstanding Faculty Members* in the University of South Alabama's history, 2013  
Named Principal Emeritus of Eco-Systems, Inc. (now Allen Engineering & Science), 2013  
Presented Award for Humanitarian Service, University of South Alabama, 2013  
Presented Outstanding Service Award, University of South Alabama College of Arts & Sciences, 2011  
Elected Sigma Xi Chapter President, University of South Alabama Chapter, 2011-13  
Presented Mortar Board Top Prof Awards (3x), University of South Alabama Chapter, 2011 and 2012

Elected Faculty Senate President, University of South Alabama, 2010-11  
 Presented Faculty Member of the Year Awards (2x), University of South Alabama, 2009 and 2010  
 Inducted into Sigma Xi Scientific Research Honor Society, 2009  
 Elected Southwest Alabama Geological Society President, 2007-09  
 Presented Teaching Excellence Award, University of South Alabama College of Arts & Sciences, 2007  
 Presented Most Outstanding Young Professional Award, Woodward-Clyde Consultants, 1992  
 Inducted into Sigma Gamma Epsilon National Honor Society for the Earth Sciences Inductee, 1983

## **PROFESSIONAL EMPLOYMENT HISTORY**

### **Private-Sector Positions**

James J. Connors & Associates, LLC, Mobile AL, 2013-present; Applied Hydrological Education & Consulting, Inc., Mobile AL, 2016-present  
 Principal Scientist  
 Eco-Systems, Inc., Jackson MS/Fairhope AL, 1993-2013  
 Principal Emeritus (retired), 2/13  
 Co-founder/Senior Principal Scientist, 2/93-2/13  
 Exsorbet Industries, Inc., Little Rock AR/Jackson MS, 1995-1999  
 President/Chief Executive Officer/Chairman of the Board of Directors, 2/97-2/99  
 Chief Operations Officer, 1/97-2/97  
 Interim President, Emergency Response/Industrial Services Subsidiary, 9/96-1/97  
 Executive Vice President, Business Development, 4/96-1/98  
 Senior Principal Hydrogeologist, 12/95-4/96  
 Woodward-Clyde Consultants, Jackson MS, 1989-1993  
 Vice President, Office/Operating Unit Manager, Senior Project Scientist, 5/89-8/90  
 Geraghty & Miller, Inc., Tampa FL/Baton Rouge LA, 1986-1989  
 Senior Scientist, Division Manager for Hydrocarbon Services, 5/88-5/89  
 Staff Scientist, 5/87-5/88  
 Scientist, 6/86-5/87  
 P.E. LaMoreaux & Associates, Inc., Tuscaloosa AL/Lakeland FL, 1985-1986  
 Field Hydrogeologist, Computer Modeler, 7/85-6/86

### **Academic Positions**

University of South Alabama, Mobile AL, 2003-2016  
 Faculty Positions  
 Associate Professor, Department of Interdisciplinary Studies, 1/15-1/16  
 Assistant Professor, Department of Interdisciplinary Studies, 8/12-12/13  
 Assistant Professor, Department of Earth Sciences, 1/08-3/12  
 Instructor, Department of Earth Sciences, 1/03-1/08  
 Administrative Positions  
 Dean, School of Continuing Education & Special Programs, Interim, 1/15-1/16

Special Assistant to the Vice President for Research & Economic Development, 12/13-1/15  
 Director of International Education, Interim, 2/13-11/13  
 Department Chair, Developmental Studies, Interim, 8/12-12/13  
 Associate Dean, School of Continuing Education & Special Programs, 8/12-12/13  
 Vice President for Research, Interim, 3/12-8/12

### **SELECTED PROJECTS**

Expert witness for Plaintiffs in an Alabama case involving leachate-related soil, sediment, stormwater, and groundwater contamination immediately offsite of at a large municipal solid waste landfill. Contaminants included PFAS, metals, VOCs, etc. Involved multiple site inspections and sampling events, drone reconnaissance, critique of work from four opposing experts, observation of Defendant's field work, preparation of expert and supplemental reports, two depositions, and trial testimony.

Expert witness for Defendant in a Mississippi U.S. District Court case involving alleged damage to a coastal estuary by stormwater-related erosion and sediment from a large-scale construction project. Reviewed file, literature, current and historical maps, rainfall and soil data, and opposing expert's reports. Conducted site inspections, prepared an expert report, produced affidavits challenging opposing expert, and gave a deposition.

Expert for Plaintiffs in a New Zealand High Court case involving municipal stormwater impacts on private residential property. Reviewed file, performed research, inspected site, collected onsite measurement, installed temporary piezometers, inspected and measured drainage area, reviewed opposing experts' reports, worked with opposing expert to define areas of agreement and disagreement, produced two expert reports (a "Will Say Statement" and a "Brief of Evidence"), assisted attorney with technical questions for cross examinations of opposing experts, and provided testimony at trial.

Consulting expert for Plaintiffs in a South Carolina class-action lawsuit involving the use of an untested and unregistered disinfectant in the water-supply wells of a small town. Reviewed file, performed research, performed a site inspection, and advised attorneys.

Expert witness for Plaintiff in a Tennessee U.S. District Court subrogation claim involving a building fire allegedly caused by stormwater-related flooding. Reviewed file, inspected site, researched local rainfall/humidity/hydrology, and produced an expert report.

Expert witness for Defendants in a U.S. district court case involving extensive PFAS contamination caused by an AFFF product manufacturer and distributor. Work included a file review, research, preparation of an expert report and a rebuttal report, and a deposition.

Expert for Defendants in a north Alabama court case involving alleged flooding of a retirement/residential complex by stormwater runoff from an adjacent construction site during a severe regional rainfall event. Reviewed file, inspected site, researched rainfall and local soils, reviewed opposing expert's statement.

Expert witness for Plaintiffs in a coastal Alabama case involving the hydrodynamic and environmental impacts of a proposed construction of a large pier/boathouse on a bayou-fed bay along the Gulf Coast. Proposed project involved a large, dredged channel and vessel turnaround basin in an estuary designated an "Outstanding Alabama Water" body. Work

involved a file review, scientific literature research, a site inspection, an expert report, a deposition, and trial testimony.

Expert witness for Defendants in an Indiana case involving the alleged connection between highway construction stormwater runoff and a fatal traffic accident. Reviewed file, local soil and topographical maps, accident-scene video and photos, historical aerial photos, and rainfall data. Conducted site inspection/infiltration tests and produced an expert report.

Expert for Plaintiffs in a U.S. District Court class-action lawsuit against a major PFAS producer. Case involved PFAS contamination of groundwater, soil, sediment, river water and pore water, biota, stormwater, industrial wastewater, and a municipal drinking water supply. Reviewed file, researched regulatory databases, inspected site, produced an expert and supplemental reports, reviewed/critiqued opposing expert's reports.

Expert witness for Defendants in a Texas case involving erosion and mass wasting along a Houston-area bayou as a result of Hurricane Harvey. Reviewed file, external data, literature, and videos. Prepared an expert report.

Expert for Plaintiff in a Louisiana U.S. District Court case involving a large oil spill that appeared suddenly. Reviewed file, public oil and gas records, and local soils and hydrogeology. Inspected site and produced an expert report.

Expert witness for Defendants in a Mississippi U.S. District Court case involving alleged soil contamination of from a closed construction-demolition debris landfill. Reviewed file, inspected site, mapped local stormwater flow, produced an expert report, and gave a deposition.

Expert witness for Plaintiff in an Illinois U.S. District Court case that involved alleged trespass and defamation claims related to the existence of an inland watercourse. Reviewed file, performed research, and produced an expert report.

Expert witness for Defendants in a Wisconsin case involving alleged environmental damage from a large "concentrated animal feeding operation" (CAFO) dairy. Reviewed file and literature, inspected site multiple times, and gave a deposition and trial testimony.

Expert witness for Plaintiffs in an Alabama case involving onsite groundwater contamination at a large municipal solid waste landfill. Contaminants included PFAS, metals, VOCs. Inspected site and sampled wells several times, prepared multiple reports, assisted with settlement.

Expert for Plaintiffs in a Mississippi U.S. District Court case involving alleged impacts in a private pond by stormwater runoff from an adjacent large furniture manufacturing plant. Reviewed file, performed site inspections and sampling for PFAS, produced an expert report, and gave a deposition.

Expert witness for Plaintiffs in an American Arbitration Association case regarding the source and timing of groundwater and subsurface free-phased solvent contamination at a West Virginia refinery on the Ohio River. Reviewed file, inspected site, produced expert and rebuttal reports, performed computer modeling, met with regulatory agency, and gave arbitration hearing testimony.

Expert witness for Defendants in a south Florida case involving alleged stormwater flooding of a commercial building complex near a business airport. Reviewed file, historical rainfall,

wells and soil boring logs, local water-table elevation and soils, and historical air photos. Presented opinions and bases to attorney.

Consulting expert for Plaintiffs in a dispute involving alleged groundwater and surface-water contamination (metals and PFAS) flowing onto the property of a waste transfer station from an adjacent metal coating facilities' pond. Inspected and sampled the site multiple times, produced expert reports, advised owners and attorney.

Expert witness for Plaintiffs in an Alabama U.S. District Court case involving the environmental impacts from a large 1970s petroleum spill in a coastal wetland area along the Mobile River and turning basin. Work involved site inspections, sample collection, file review, and production of an expert report.

Expert witness for Defendants in a Mississippi U.S. District Court case involving alleged hydrocarbon and brine contamination from a pipeline break in a southern oil field. Reviewed file, produced an expert report, gave a deposition, and assisted with challenge of opposing expert.

Expert for Plaintiff in an Alabama case involving alleged stormwater runoff and subsurface throughflow from a neighborhood to an adjacent downhill property. Reviewed file, performed site inspections, observed soil borings, produced expert and rebuttal reports, reviewed opposing expert reports, gave two depositions, developed demonstrative evidence, and testified at trial.

Expert witness for Plaintiffs in a Mississippi case involving historical groundwater contamination from a leaking gasoline pipeline 30-years prior. Reviewed file, produced an expert report, gave a deposition, and testified at trial.

Expert witness for Defendant in a Michigan defamation case involving claims of a raw sewage/chemical release into a river located on the Upper Peninsula. Reviewed file, researched historical maps, photos, rainfall, and wind data. Conducted a site inspection to observe local river hydrodynamics. Produced an expert report.

Expert for Plaintiffs in a coastal Mississippi case involving trespass and flooding, erosion, and sedimentation impacts from stormwater runoff from a hotel/restaurant property onto an adjacent residential property. Reviewed file, inspected site, and produced an expert report.

Expert for U.S. government agency Appellee in an executive branch tribunal contract dispute involving groundwater depths and asbestos-containing wastes at a disposal site on the shores of an Atlantic-coast military base in Florida. Reviewed file, inspected site, wrote expert and rebuttal reports, and gave a deposition.

Consulting expert for Plaintiff in an Alabama dispute involving downstream flooding allegedly caused by releases from an artificially-created pond. Inspected site, performed research, and advised attorney.

Expert witness for Plaintiffs in a coastal Alabama case involving stormwater-related flooding caused by runoff from one residential property onto an adjacent residential property. Work included a site inspection, file review, research, and preparation of an expert report.

Consulting expert for Defendants in a Louisiana U.S. District Court case involving potential hydrological causation of a Mississippi River collision between a moving tug/barges and an

anchored vessel. Reviewed file, performed research, and produced a report on the potential hydrological causes of the accident.

Expert witness for Plaintiffs in a coastal Mississippi case involving trespass, wetlands degradation, flooding, erosion, and sedimentation impacts from stormwater runoff from one residential property impacting an adjacent property. Performed file review and research, conducted three site investigations, produced a report and supplemental report, and gave deposition.

Consulting expert for Defendants in a central Alabama case involving potential involvement of groundwater in the structural stability of a large retail building complex. Reviewed file, researched local hydrogeology, visited site, and advised attorney.

Consulting expert in a dispute involving the cause of flooding that occurred after a major inland rain event in central Alabama. Reviewed file, researched local soils and rainfall data, advised attorney.

Consulting expert advising Plaintiff attorney group on possible links between groundwater contamination and cancer cases in a rural area of Alabama. Reviewed file, performed site inspection and research, and advised attorneys.

Consulting expert for Plaintiff in a west Texas case involving alleged ecological damage to a commercial property allegedly caused by herbicide application on an adjacent commercial property. Reviewed file, performed research, inspected and sampled site, and advised attorneys.

Consulting expert for Defendants in a north Mississippi case involving alleged above-ground fuel storage tank regulatory violations that may have contributed to a severe fire-related personal injury. Reviewed file, performed research, and advised attorney.

Expert witness for Plaintiffs in a Louisiana case involving extensive flooding, erosion, sediment deposition, environmental damage, and water-quality degradation on a private property from a large high-school construction project. Reviewed file and historical aerial photographs, researched local hydrology and rainfall, and produced an expert report.

Consulting expert for Defendants in an Arkansas case involving timing of PCB releases at an industrial facility. Reviewed file, advised attorneys, assisted with opposing expert's deposition.

Consulting expert for Plaintiff in a Florida case involving computer modeling of potential groundwater drawdown in a water-supply spring from a proposed municipal well field.

Expert testimony before a regional fisheries commission on ecological population dynamics in Chesapeake Bay. Led research team, prepared statement, and testified before commission.

Expert for Defendants in an Alabama case involving residential water damage allegedly caused by landscaping work. Reviewed file, conducted research, advised attorneys.

Expert witness for Plaintiffs in an Alabama case involving negative impacts on a private pond by stormwater runoff coming from the construction of an adjacent, uphill municipal sports complex. Reviewed file, inspected site, produced an expert report, and gave deposition and hearing testimony.

Expert witness for Defendants in a Mississippi settlement hearing that involved PCB contamination of soil/sediments in a privately-owned wetland. Reviewed data and details of proposed remedy, addressed the technical adequacy questions, and gave courtroom testimony.

Consulting expert for Defendants in a Louisiana case involving a collision between an anchored barge and a passing industrial vessel in a bayou. Reviewed file, researched and reported on possible hydrological causes, advised attorney.

Expert witness for Plaintiffs in a central Louisiana case involving trespass and land taking for alleged “natural” drainage purposes. Reviewed file, researched historical aerial photos and topographical maps, produced an expert report, and gave a deposition.

Expert witness for Plaintiffs in a Mississippi case involving environmental impacts associated with a crude oil and brine pipeline break on private property. Reviewed file, inspected and sampled site, produced an expert report, and gave a deposition.

Consulting expert for Defendant in an Alabama case involving alleged airborne particulate contamination from a steel manufacturing plant. Reviewed file and advised attorney.

Consulting expert for Plaintiffs in a central Alabama case involving groundwater contamination caused by a large gasoline pipeline explosion and fire. Inspected site, reviewed data and monitoring reports, collected samples and split samples, advised attorneys, and provided technical assistance during settlement negotiations.

Expert witness for Defendants in a Mississippi case involving alleged sediment impacts on a private residential lake related to stormwater runoff from and upstream neighborhood development. Performed a file review and multiple site inspections. Collected and analyzed grain-size samples. Prepared an expert report and critiqued opposing expert’s report. Provided input to attorneys for opposing expert deposition.

Expert witness for Plaintiff in a south Alabama case involving residential flooding caused by groundwater springs. Reviewed file, performed research, gave deposition and trial testimony.

Expert for Defendants in a central Alabama case involving alleged flooding of a residential property by runoff from an uphill housing project. Reviewed file, conducted site inspection, reviewed aerial photos and rainfall data, formulated opinions, assisted with settlement.

Expert witness for Plaintiffs in an Alabama case involving impacts on offshore aquaculture (raised oyster beds) by sediments mobilized/transported from an island restoration project. Reviewed file, inspected site, researched conditions and hydrodynamics of site, prepared a report, and gave a deposition.

Consulting expert for Plaintiffs in an Alabama dispute involving flooding of a downstream residential area due to construction/alterations on adjoining, upstream properties. Reviewed file, researched area, inspected site, and advised attorney.

Consulting expert for Defendant in a central Alabama dispute involving alleged damage to and contamination in a private pond by an overturned and submerged commercial truck. Reviewed file, inspected site, and provided advice to attorneys.

Consulting expert for Plaintiffs’ attorney a dispute involving sinkholes that were forming in a south Alabama country club neighborhood. Inspected site, researched issue, advised attorney.

Expert witness for Defendants in a Mississippi U.S. District Court case involving the unintended creation of a wetland as a result of piped-in stormwater. Reviewed file, soils data,

and aerial/site photos. Conducted site inspections and mapped local stormwater flow during a storm event. Prepared an expert report and assisted attorneys with opposing expert depositions.

Expert witness for Defendant in several related Mississippi cases involving alleged oilfield brine contamination. Files were reviewed, research performed, and expert reports produced.

Expert for Plaintiffs in an Alabama case involving sediment hydrodynamics on the shore of a coastal estuary/river. Conducted site inspections, collected samples for grain-size analysis, reviewed historical maps and aerial photos, participated in mediation.

Consulting expert investigating potential PCB-contamination in an inland mid-Atlantic lake. Reviewed file and literature, visited and sampled site, advised attorneys.

Expert for Defendant in an Alabama case involving alleged stormwater-related flooding on one commercial property by an uphill commercial property. Reviewed file, conducted site inspections and drone recon, formulated opinions, and gave a deposition.

Consulting expert for Defendants in a south Louisiana case involving potential hydrological and sedimentological causes of a petroleum pipeline break near an offshore dredging location. The issue involved both civil and potential criminal liability. Reviewed file, performed research, and advised attorneys.

Expert witness for Plaintiffs in a coastal Alabama case involving repeated stormwater-related flooding in a private home. Reviewed file, researched hydrology and historical aerial photos and rainfall data, conducted site inspections, mapped stormwater flow, produced an expert report.

Expert for Defendants in a case involving alleged stormwater-related flooding on property near a Louisiana gravel/sand mining operation. Reviewed file, performed research, inspected site, and advised attorney

Expert witness for Plaintiffs in a case involving the potential hydrological impacts of a planned lithium mine and processing operation. Reviewed file, performed research, produced opinions for an expert disclosure, sat for a deposition, and assisted attorneys with technical questions for opposing experts and settlement discussions.

Expert witness for Defendant in an Alabama case involving alleged downstream flooding caused by discharges from a stormwater pond. Reviewed file and performed site inspection and research. Prepared an expert report.

Consulting expert for Plaintiffs in a class-action lawsuit involving groundwater contamination from an east-central Alabama Subtitle D landfill. Visited site, reviewed file and contamination data, advised attorneys.

Consulting expert for a Plaintiff's attorney group in a potential Georgia case involving MTBE contamination in the environment. Reviewed file and scientific literature, performed sampling, and advised attorneys.

Consulting expert for Plaintiffs in a class-action lawsuit involving alleged dust/particulate contamination from a cement kiln/production operation. Collected wipe samples and produced report.



Expert for Plaintiffs in a case challenging buffer-zone requirements around a proposed granite mining operation. Performed site inspection, reviewed file and data, assisted attorney with deposition questions, produced expert report.

Expert for Plaintiffs in a federal court case involving impacts from stormwater runoff downstream of a 325-acre mixed use development. Performed a file review, multiple site inspections, and independent research. Produced an expert report and supplemental reports. Gave depositions and testified at trial.

Consulting expert for Plaintiffs in a case involving potential stormwater runoff issues posed by a proposed neighborhood development. Reviewed file, inspected site, advised clients/attorney.

Consulting expert evaluating potential hydrological impacts of a proposed crystalline rock quarry application. Reviewed file and data, performed research and two site inspections, and produced expert report.

Consulting expert in a case involving an acid release from a frac tank. Reviewed data, conducted research, and advised attorney.

Hydrological consultant evaluating potential saltwater wedge hydrodynamics and impacts at the water-supply intake of a large chemical company facility on the Mississippi River. Reviewed internal documents and data, external data, models, and the scientific literature. Inspected the site and area/region. Produced report and advised company's technical personnel and contractors.

Geoscience consultant on the formation of a potential sinkhole at a southern Alabama residential property. Performed site inspection and research, advised clients, produced a report.

Hydrological consultant on a restoration and conservation project in a south Mississippi urban stream. Work included site inspections and field mapping, evaluation of erosion and sedimentation hydrodynamics, consultation with engineering firm to help select natural restoration alternatives, and public meeting participation.

Hydrogeological consultant in a south Alabama investigation of potential stormwater runoff and groundwater causation of foundation issues at a large apartment complex.

Hydrological evaluation of recharge rates and chemistry issues at a natural karst spring used for bottled water production in north Georgia. Work involved file/literature reviews, a site inspection with pumping tests, report preparation, and a presentation to a prospective buyer.

Property transfer-related environmental investigations for a major oil company. Involved hundreds of gasoline retail outlets in the Florida Panhandle and southern Alabama. Work involved phased site audits, file reviews, and targeted subsurface investigations.

Hydrological research and report preparation for an international alligator/crocodile farming corporation. Produced detailed maps of groundwater with suitable temperature, salinity, production, and depth for potential sites in Louisiana and Texas.

Senior oversight of a project that developed environmental/health & safety (EHS) standards for a major U.S. oil company working offshore in a Southeast Asian country. Project involved researching and negotiating standards, writing regulatory documents, arranging for official signing, implemented/training personnel, and onsite auditing.

Planned and managed site environmental audits for a large oilfield services company's locations in Mississippi and Louisiana. Worked with client to set goals and develop a standardized evaluation rubric, performed file reviews, site visits and sampling, produced reports.

Evaluated potential for contamination and other hydrological impacts at a solid-waste transfer station in Texas caused by an adjacent dam and stormwater pond at a metal processing facility. Reviewed file, performed research, inspected and sampled site, produced several reports.

Senior oversight on several site environmental/health & safety (EHS) audits at facilities operated by a U.S. government agency along the Gulf Coast.

Property-transfer environmental investigations for numerous sites in central Mississippi targeted for acquisition by a large gaming/casino company. Work involved regulatory and site investigations, as well as sampling/remediation where warranted.

Multi-phased contamination assessment/remedial action at an oil and gas field in southern Mississippi. Located abandoned waste drums using ground-penetrating radar data and borings, collected samples, and quantified releases.

Hydrological and geoscience consultant for a public board responsible for oversight of a city/county municipal Subtitle D solid waste landfill. Working with the board's director, business manager, and attorney to review operator's reports and proposals and interact with state regulatory agency on technical issues.

Consultant on a large project investigating health impacts of the Deepwater Horizon oil spill. Collected creel survey data from subsistence fishers and biota samples for analysis.

Pre-acquisition audit/investigation of a closed rice-processing and storage facility in Mississippi. The work included reviews of regulatory and onsite files, former employee interviews, visual evaluation of the property, and targeted sampling.

Hydrogeological evaluation and monitoring system design/installation at a Subtitle D landfill in southern Mississippi. Inspected site for seeps, surface water, etc.; reviewed and correlated numerous older soil borings; drilled and lithologically logged several soil borings; used new piezometers and downhole geophysics (radiation) and aquifer testing to fill gaps and test site conceptual model; reinterpreted site as a multi-aquifer hydrogeological system and designed monitoring appropriate monitoring system.

Hydrological and contamination investigation and long-term monitoring of saltwater flow dynamics in an old, large oil producing area in the Big Black River watershed in Mississippi. Work involved field reconnaissance, flow/current evaluations at various water stages, review of LANDSAT images, assessment of brine impacts on surface waters and biota, and five years of quarterly monitoring of 25 miles of streams.

Evaluated groundwater monitoring system of western Mississippi landfill for a Subtitle D compliance. Inspected site and file, researched site history/setting, reviewed sampling data/field parameters, reviewed monitoring well construction diagrams, logs, and locations. Installed additional well.

Contamination assessment to produce risk-based clean-up standards for a remedial design at an abandoned waste-oil disposal site. Work involved delineation of impacts at three waste-oil pits that were dug into central Mississippi limestone and exploration for others using surface

geophysics, remote sensing, and soil borings. A site-specific hydrogeological conceptual model for contamination transport was prepared and tested.

Hydrological consulting on a project involving the impacts acid and ammonia on local groundwater (due to infiltration and surface-water flow) and estuarine ecology (due to runoff and submarine discharge) at a coastal fertilizer plant. Also reviewed and critiqued site-specific computer modeling.

Site conceptual and computer modeling at a Mississippi Subtitle D solid waste landfill. Work involved site inspections, review of regional and site hydrology, correlation of existing hydrogeological data, facility history research, new soil cores and monitoring wells, aquifer testing, computer simulations, and the development and testing of a site conceptual model. The result was regulatory-approval of a Subtitle D landfill with only a natural clay liner.

Groundwater computer modeling of drawdown, dewatering, and settlement under a Mississippi casino. Modeled confirmed engineering concept that the facility could be lowered by pumping a system of peripheral wells.

Contamination assessment and remediation well installation at a large RCRA facility located over highly-faulted/fractured bedrock in central Alabama. Leaking facility was an onsite waste landfill. Contaminants of concern were pesticides and related compounds that had been released into a complex, multi-layer subsurface environment that included surficial saprolite, deeper sandstone and carbonates, karst hydrology, and widespread faulting and fracturing.

Remedial investigations at military bases in Florida and Georgia. Work involved multi-phased field events which included soil-gas surveys, installation of soil borings and groundwater monitoring wells, groundwater/soil sampling, and surface geophysical surveys. Contaminants included DDT, nerve agents, and explosive compounds.

Performed pumping tests and real-time water-quality monitoring/modeling at a coastal military base to calculate pumping rates for wells used in a solvent plume pump-and-treat remediation system without causing saltwater intrusion issues for the biological treatment system.

Mercury investigations and remedial actions at more than 300 natural gas pipeline metering stations. Project included planning and implementing a series of rapid, coordinated, and cost-effective site characterization and remediation activities at sites located in several states.

Performed baseline hydrogeological evaluation at a National Estuarine Research Reserve property to evaluate the environmental impact of past agricultural land uses in the wetland.

Aquifer testing, large DoD contractor facility in Florida. Performed aquifer tests on monitoring wells and analyzed data to determine aquifer characteristics for environmental fate-and-transport work.

Municipal water-supply wellfield design, installation, and testing in central Florida. Target production zones were selected, test borings drilled and logged, and pumping tests performed.

Water-quality investigation at a beer production facility in central Florida. Project involved isolating, sanitizing, and drill-stem testing various zones in a deep water-supply well to determine the source and character of microbial contamination.

Regional water-supply assessment/development work to explore the potential for using brackish groundwater resources in coastal west-central Florida for low-pressure reverse-osmosis.

Contamination assessment/remedial action planning at an old rail yard. Delineated diesel fuel contamination at the surface and in the subsurface. Work involved the drilling/sampling, installation of temporary and permanent groundwater monitoring wells, reporting results.

Conducted a beach erosion study in coastal Alabama to test the effectiveness of a large-scale beach sediment nourishment project along the northern Gulf of Mexico. Set up multiple baseline transects in both nourished and natural beach areas, collected samples for grain-size analysis, produced report.

Remedial investigation of four fuel storage terminals in Mississippi, Alabama, and Florida. Involved assessment of soils and groundwater, installation of groundwater monitoring wells, groundwater sampling, onsite portable lab work, free-product fingerprinting, and remedial planning.

Research and fieldwork to support design of beneficial use project for dredge spoils in coastal Mississippi. Work included cores and grain-size samples in lagoon for a pilot-scale coastal erosion protection structure.

Contamination assessment/remediation at over 50 leaking underground storage tank sites in Florida, Alabama, Mississippi, Louisiana, Arkansas, and Texas. Work included installation of soil borings and monitoring wells, groundwater/soil sampling, free-product finger printing, remedial planning, and remediation system installation/operation and maintenance.

Reverse-osmosis water-supply well testing/replacement in central Florida. Evaluation and testing of a deep, large-scale withdrawal water well that was being used to supply drinking water to a municipality via a low-pressure reverse-osmosis plant.

Multi-facility chromate contamination investigation at several natural gas compressor stations in west Texas. Project included evaluation of hydrogeological conditions that would affect potential chromate fate and transport (redox geochemistry, flow gradients, hydraulic characteristics, etc.), implementation of a detailed assessment plan, aquifer testing, and horizontal drilling techniques.

Baseline aquifer study of a proposed large-scale phosphate mining operation in central Florida. Soil borings/test wells were drilled and tested. Data were used to plan post-mining reclamation.

Contamination assessment, monitoring, and in-situ/active risk-based remediation of sediment, soil, and groundwater at over 40 natural gas compressor stations from Mississippi to New York. Involved PCBs, solvents, and other contaminants.

Regional ambient groundwater-quality study in northeast Florida. Hundreds of water wells from various aquifers were sampled over several months for a broad list of parameters.

Remedial investigations at multiple wood-treatment sites in Mississippi. Work involved assessment of extent of impact in soil and groundwater in several areas at a large lumber treatment facility. Contaminant included dissolved and free-phased product. Included groundwater modeling and use of surface geophysics (EM).

Water-supply alternatives study in east-central Florida. Research to develop drinking water alternatives for an area that was experiencing saltwater intrusion.

Remedial construction oversight for the excavation and disposal of PCB- and petroleum-contaminated soils in central Alabama. Impacted area was then backfilled and restored.

## **LITIGATION EXPERIENCE**

### **Trial/Hearing/Arbitration Testimony**

2024

- Trial testimony, U.S. District Court, Northern District of Alabama, Case 2:18-CV-1693-RDP (Winther v. U.S. Steel, et al.)
- Trial testimony, High Court of New Zealand, Hamilton Registry, Case CIV 2020-072-0076 (Atkinsons v. Waipa District Council)

2023

- Trial testimony, Circuit Court, Monroe County, Wisconsin, Case 2022-CX000004 (Wisconsin v. MDS Dairy, et al.)
- Trial testimony, Circuit Court, Baldwin County, Alabama, Case CV-2020-900699 (Vaughn, et al. v. Smith, et al.)

2022

- Trial testimony, Circuit Court, Mobile County, Alabama, Case 02-CV-2020-901477.00 (Carpenter v. Crown Pointe HOA, et al.)
- Hearing testimony, Circuit Court, Shelby County, Alabama, Case CV-2021-900353 (Welch v. Chelsea, et al.)

2021

- Trial testimony, Circuit Court, Mobile County, Alabama, Case 02-CV-2018-902210.00 (SWDA, et al. v. WMMBEC, Inc., et al.)

2015

- Arbitration testimony, ICDR/AAA Arbitration, Washington D.C., Case 50 20 1200 0450 (Ergon v. Shell)

2009

- Trial testimony, Circuit Court, Mobile County, Alabama, Case CV-08-901850 (Kendrick v. Roberts Bros.)

2003

- Trial testimony, Circuit Court, Marion County, Mississippi, (Jacobs, et al. v. Plantation Pipeline)

1992

- Hearing testimony, Circuit Court, Lowndes County, Mississippi, (Weathers, et al. v. Tennessee Gas)

### **Depositions**

2024

- Office of Administrative Hearings, Wake County, North Carolina, Case 24 HER 02152 (Bell, et al. v. North Carolina Department of Environmental Quality)
- Circuit Court, Mobile County, Alabama, Case 02-CV-2022-901103.00 (Walter v. Adams Homes, et al.)
- Circuit Court for Garrett County, Maryland, Case C-11-CV-22-000077 (Patterson v. WISP Resort, et al.)
- U.S. District Court, District of SC, Charleston Division, Case Civ. No. 2:23-CV-02384 (Tyco v. AIU Ins. Co., et al.)

- Circuit Court of the 11<sup>th</sup> Judicial Circuit in and for Miami-Dade County, Florida, Case 2022-003244-CA-01 (CIGN, et al. v. Fluent Servicing, et al., plus counterclaim)
- 2023
- Circuit Court, Monroe County, Wisconsin, Case 2022-CX000004 (Wisconsin v. MDS Dairy, et al.)
  - Circuit Court, Shelby County, Alabama, Case CV-2021-900353 (Welch v. Chelsea, et al.)
  - Chancery Court, Jackson County, Mississippi, Case 2019-2010 MAM (Guice v. Borries)
- 2022
- Armed Services Board of Contract Appeals, Case 628162021 (HGL v. USACE)
  - U.S. District Court, Northern District of Alabama, Case 2:18-CV-1693-RDP (second deposition, Winther v. U.S. Steel, et al.)
  - Circuit Court, Baldwin County, Alabama, Case CV-2020-900699 (Vaughn, et al. v. Smith, et al.)
- 2021
- U.S. District Court, Northern District of Mississippi, Case 3:19cv213-NBB-RP (Seale v. MDOT, et al.)
  - Circuit Court, Mobile County, Alabama, Cases 02-CV-2018-902210.00 and 02-CV-2017-901263.00 (two depositions SWDA, et al. v. WMMBEC, Inc., et al.)
  - Circuit Court, Mobile County, Alabama, Case 02-CV-2020-901477.00 (two depositions, Carpenter v. Crown Pointe HOA, et al.)
  - 19<sup>th</sup> Judicial District Court, East Baton Rouge Parish, Louisiana, Case 684270 SEC. C (Raby v. Fakouri, et al.)
- 2019
- U.S. District Court, Northern District of Alabama, Case 2:18-CV-1693-RDP (Winther v. U.S. Steel, et al.)
  - Circuit Court, Mobile County, Alabama, Case 02-CV-2016-901970.00 (Southern Pearl Oyster Farm, et al. v. 4H Construction, et al.)
  - Circuit Court, Mobile County, Alabama, Case CV-2017-901296 (Handico v. Barry's U-Pull-It)
- 2018
- U.S. District Court, Southern District of Mississippi, Case 1:17CV130 LG-RHW (Gulf Restoration Network v. Oscar Renda)
- 2009
- Circuit Court, Mobile County, Alabama, Case CV-08-901850 (Kendrick v. Roberts Brothers)
- 2006
- Circuit Court, Lincoln County, Mississippi, Case CI2006-0064-LT (McCullough v. Denbury Onshore)
- 2003
- Circuit Court, Marion County, Mississippi (Jacobs, et al. v. Plantation Pipeline Company)

1999

- U.S. District Court, Southern District of Mississippi, Case 5:98CV63brs/f (Pennzoil v. Ramsay, et al.)

1994

- U.S. District Court, Southern District of Mississippi, Case 1:94CV108BrR (Ritzer, et al. v. T.L. James Construction, et al.)

## **TEACHING, PROFESSIONAL TRAINING, STUDENT MENTORING**

### **University-Level Courses and Seminars Taught** (University of South Alabama)

- Hydrology (Graduate and undergraduate levels)
- Contaminant Hydrology/Hydrology (Graduate level)
- Contaminant Hydrogeology (Undergraduate level)
- Water-Supply Hydrogeology (Graduate and undergraduate levels)
- Geophysics (Undergraduate level)
- Groundwater Modeling (Graduate and undergraduate levels)
- Geology Field School (Undergraduate level)
- Earth History (Undergraduate level)
- Physical Geology (Undergraduate level)

### **Student Researchers Mentored** (University of South Alabama)

#### *Graduate*

- Environmental Toxicology Graduate Students (as Thesis Committee Chair): 7
- Biology Graduate Students (as Thesis Committee Member): 2
- Civil Engineering Graduate Students (as Thesis Committee Member): 1
- Environmental Toxicology Graduate Students (as Thesis Committee Member): 6

#### *Undergraduate*

- Marine Sciences Graduate Students (as Thesis Committee Member): 1
- Undergraduate Honors Program Students (as Thesis Committee Chair): 1
- Interdisciplinary Studies Students Undergraduate Theses (as Thesis Committee Chair): 2
- University Committee on Undergraduate Research (UCUR) Students (as Mentor): 4
- Directed Research Undergraduate Students (as Advisor): 42

## **PUBLISHED ABSTRACTS**

- Connors, J., 2023. PFAS contamination of stormwater from landfill leachate seeps. Geological Society of America Abstracts with Programs, 55, 6
- Connors, J., 2023. Potential for age-dating landfill leachate releases using PFAS compounds. Geological Society of America Abstracts with Programs, 55, 6
- Connors, J. L., and Connors, J., 2023. Computer modeling of groundwater contamination caused by landfill leachate seeps. Geological Society of America Abstracts with Programs, 55, 6
- Connors, J., 2022. Using PFAS analyses to trace landfill leachate releases. Geological Society of America Abstracts with Program, 54, 5

- Connors, J., 2021. Utilization of aerial drones by an expert witness in hydrology- and environmental-related litigation. Geological Society of America Abstracts with Program, 53, 2
- Connors, J., Connors, J. L., Jackson, J. L., and Engle, R. A., 2017. Prediction of hydrocarbon surface seepage potential using infiltrometer data. Abstracts with Program: American Geophysical Union Annual Meeting, New Orleans LA, 12/12/17
- Connors, J., 2014. Subsurface occurrence, fate, and transport factors associated with arsenic in shallow groundwater at several rural locations in the southeastern U.S. Geological Society of America Abstracts with Program, 46, 3, p. 11
- Connors, J., 2012. Groundwater discharge and associated nitrogen transport in a northern Gulf Coast Estuary. Transactions: Gulf Coast Association of Geological Societies and the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists, 62, p. 691
- Connors, J., 2012. Using easily accessible subsurface data to teach crucial geological skills. Transactions: Gulf Coast Association of Geological Societies and the Gulf Coast Section of the Society of Economic Paleontologists and Mineralogists, 62, p. 693
- Connors, J., 2012. Interdisciplinary study of the headwaters of an impaired urban watershed. Geological Society of America Abstracts with Program, 44, 7, p. 447
- Connors, J., 2011. Use of readily available on-campus subsurface data to teach geological concepts and skills. Geological Society of America Abstracts with Program, 43, 3, p. 41
- Connors, J., 2010. Natural attenuation of dissolved chlorinated solvents along a flow path from an oxidized karstic aquifer to an anaerobic hyporheic discharge zone. Geological Society of America Abstracts with Program, 42, 5, p. 591
- Connors, M. A., and Connors, J., 2010. Involving high school international baccalaureate students in a long-term barrier island research project. Geological Society of America Abstracts with Programs. Vol. 42, No. 5, p.446
- McCullough, K., and Connors, J., 2010. Baseline data collection for a restoration design at a coastal river property. Geological Society of America Abstracts with Program, 42, 5, p. 119
- Warner, D., and Connors, J., 2010. Use of long-term monitoring data sets to characterize storm surge impacts on shallow groundwater. Geological Society of America Abstracts with Program, 42, 1, p. 117
- Hall, C., Crumpton, C., and Connors, J., 2010. Use of shallow sediment grain-size analysis data to aid in future land development and stormwater management practices. Geological Society of America Abstracts with Program, 42, 1, p. 111
- Connors, J., 2009. Storm-surge induced water-quality changes in an unconfined coastal aquifer system. Geological Society of America Abstracts with Program, 41, 1, p. 18
- Connors, J., 2008. Fate and transport of inorganic nitrogen along groundwater flow paths in a coastal aquifer system. Geological Society of America Abstracts with Program, 40, 6. p. 56
- Haywick, D. W., Yokel, L., Connors, J., and Capello, S., 2004. One part science, one part art, two parts local relevance; a South Alabama recipe for building a better Earth History lab manual. Geological Society of America Abstracts with Programs, 36, 2, p. 97
- Connors, J., 2005. Design, installation, and utilization of an on-campus well field for multidisciplinary geological instruction. Geological Society of America Abstracts with Programs, 37, 2, p. 15



- Bray, L., Allen, J., Pringle, M., and Connors, J., 2005. Beneficial use of dredged materials for erosion prevention and habitat restoration in coastal Mississippi, Geological Society of America Abstracts with Programs. 37, 2, p. 33
- Connors, J., 2004. Multidisciplinary methodology to characterize submarine groundwater discharge, Weeks Bay, Alabama. Geological Society of America Abstracts with Programs, 36, 2, p. 47

### **UNIVERSITY THESES**

- Connors, J., 2007. Groundwater flow dynamics and associated inorganic nitrogen transport, Weeks Bay, Alabama. Ph.D. Thesis, University of South Alabama, Mobile AL, 178 pp
- Connors, J., 1990. Structure of a part of the Birmingham Anticlinorium, Alabama. M.S. Thesis, University of Alabama, Tuscaloosa AL, 70 pp

### **CONFERENCE SESSIONS CHAIRED**

- Connors, J., and Frisbee, M., 2023. Recent advances in hydrogeology. Geological Society of America Annual Meeting/GSA Connects 2023, Pittsburgh PA, 10/18/23
- Connors, J., Fernandez, E., Rogers, S., and Singh, K., 2021. UAS applications in the geosciences. Geological Society of America Southeastern Section Meeting, Online, 4/2/21
- Beckingham, B., Callahan T., Connors, J., DeVoe, R., and Vulava, V., 2019. Applications of hydrology and biogeochemistry to stormwater management. Geological Society of America Southeastern Section Meeting, Charleston SC, 3/28/19

### **INVITED PRESENTATIONS**

- 6PPD-quinone: An overview of a contaminant of emerging concern. 29<sup>th</sup> Annual Joint Engineering Societies Conference, Lafayette LA, 2/6/25
- Hydrological evidence of water in the Solar System. Mobile Astronomical Society, Mobile AL, 8/15/24
- PFAS in landfill leachate: Research and practice. 27<sup>th</sup> Annual Joint Engineering Societies Conference, Lafayette LA, 2/23/23
- Hydrological uniformitarianism. Mobile Rock and Gem Society meeting, Mobile AL, 6/12/18
- Lead contamination in our water supply. Gulf Region Health Outreach Program Emerging Scholars Health Sciences Academy Workshop, Mobile AL, 3/24/17
- Emerging environmental contaminants: New threats, new approaches, new practices. Gulf Region Health Outreach Program Emerging Scholars Health Sciences Academy Workshop, Mobile AL, 3/21/16
- The University of South Alabama Center for Environmental Resiliency: Developing multidisciplinary, research-based environmental solutions. Bays & Bayous 2014: The Building Blocks of Coastal Resilience, Mobile AL, 12/2/14
- Private-sector geoscience research and project opportunities, Federal Small Business Innovative Research (SBIR) and Small Business Technology Transfer (STTR) grant programs. Meeting of the Southwest Alabama Geological Society, Mobile AL, 1/15/08
- International education and research collaboration in the U.S. 2<sup>nd</sup> International Conference on Advances in Electrical Engineering, Dhaka Bangladesh, 12/19/13

Geological resources, reserves, and valuations along the northern Gulf Coast. Understanding the Financial Advantages of Land Conservation, Advanced Seminar on Conservation Easements, Mobile AL, 8/22/13

Bridging the gap between sponsored programs and principal investigators. Society of Research Administrators, Alabama Chapter Annual Meeting, Daphne AL, 8/23/13

Research into storm-surge remobilization of subsurface contamination. Fuzhou University Zhicheng College, Fuzhou China, 3/11/13

Quantifying environmental impacts of the Deepwater Horizon oil spill. Nurses & Environmental Health: Health Consequences of the Gulf Oil Spill Conference, Mobile AL, 11/19/10

Occurrence of oil and gas in the Gulf of Mexico (Keynote Speaker). NOAA Lessons from the Deep: Exploring the Gulf of Mexico's Deep-Sea Ecosystems, 10/11/10

Oil and gas in the Gulf of Mexico - A primer. Gulf of Mexico Alliance Governors' Action Plan II (All Hands) Meeting, Biloxi MS, 8/3/10

Designing effective construction sediment and erosion plans. Weeks Bay Reserve Nonpoint Source Pollution and Stormwater Workshop, Fairhope AL, 7/19/06

The geology of erosion. Soils, Stormwater, and Watershed Protection: Tools for Managing Erosion Workshop, Mobile AL, 12/7/06

Welcome to the Ice Age - Geological evidence for climate change over time. 1<sup>st</sup> Southeastern Coastal and Atmospheric Processes Symposium, Mobile AL, 3/31/07

Geological constraints on stormwater runoff in the Mobile Bay area. NOAA Community Leader Stormwater Training Workshop for Coastal Alabama, Mobile AL, 12/15/05

Nitrate fate and transport in groundwater, Weeks Bay, Alabama. Weeks Bay Reserve Research Symposium: 20-year Designation Anniversary, Fairhope AL, 4/22/05

Groundwater monitoring at RCRA Subtitle D landfills. 1993 Solid Waste Association of North America Mississippi Chapter Symposium, Biloxi MS, 4/8/93

Groundwater contamination assessment. Mississippi Environment 1990, Jackson MS, 3/22/90

## **RECENTLY COMPLETED TRAINING/CONTINUING EDUCATION**

2025

- Technical University of Denmark course: Environmental Management & Ethics
- University of Florida course: Sustainable Agricultural Land Management
- Wageningen University and Research, Professional course: Drainage in Agriculture: Controlling Water and Salt Levels in the Soil
- Interstate Technology and Regulatory Council (ITRC) webinars: Groundwater Modeling and Complexity of PFAS Modeling; Overview of the Tire-Derived Chemicals 6PPD & 6PPD-quinone
- Eurofins Environmental Testing, webinars: PFAS Basics (2025)

2024

- Rice University, course: Natural Attenuation of Groundwater Contaminants - New Paradigms, Technologies, Applications
- Polytechnic University of Milan, course: Sustainable Urban Water Systems

- University of Western Australia, course: Best Practice Farming for a Sustainable 2050
- American Institute of Hydrology, webinars: A Critical Evaluation of Statistical, Conceptual, and Machine Learning Tools for Streamflow and Flood Forecasting, Mapping Surface Water Dynamics with Cloud Computing and Open-Source Software; Modernizing Probable Maximum Precipitation Estimation
- Interstate Technology and Regulatory Council (ITRC), webinars: PFAS Beyond the Basics - Sampling, Analysis, Surface Water, & Air Occurrence, Pump and Treat Optimization, Contaminants of Emerging Concern (CEC) Identification Framework
- Safety Unlimited, Inc., courses: ICS-700 - Introduction to the National Incident Management System, Flood Cleanup Awareness Training
- 360training, Inc., training/certification: HAZWOPER 40-Hour, Train-the-Trainer
- Pace Analytical Services, webinars: Navigating the Complexities of Testing for PFAS in Plant and Animal Tissue, Unlock PFAS Maximum Contaminant Levels (MCLs) Insights - What, When, How
- Eurofins Environmental Testing, webinars: PFAS Update (2024), PFAS Basics (2024), PFAS Sample Collection - State of the Science (2024), PFAS Navigating Analytical Method Options, Non-Stick Humans - A PFAS Story, Ethical Perspectives in Wastewater Monitoring, Understanding Maryland Department of the Environment's (MDE's) Requirements for PFAS Sampling of Biosolids, From Contamination to Clarity - Finalizing the PFAS Drinking Water Regulation, New Developments in Fenceline Monitoring: EPA Method 325 & the Expanded HON Rule

## 2023

- Penn State University, course: Dairy Production and Management
- U.S. Environmental Protection Agency, webinars: Proposed PFAS National Primary Drinking Water Regulation (NPDWR), Proposed PFAS NPDWR
- Eurofins Environmental Testing, webinars: PFAS Update (2023), PFAS Basics (2023), PFAS Sample Collection - State of the Science (2023), PFAS in Source and Ambient Air, PFAS Navigating Analytical Method Options, PFAS in Products, Advancing the Collection and Analysis of PFAS in Blood and Serum, The 5<sup>th</sup> Unregulated Contaminant Monitoring Rule (UCMR 5)
- Pace Analytical Services, webinar: Deep Dive into the 3<sup>rd</sup> Draft of Method 1633 for PFAS
- NOAA Office of Response and Restoration, course: Science of Chemical Releases
- Safety Unlimited, Inc., Course: ICS-100: Introduction to the Incident Command System
- Virginia Department of Environmental Quality, courses: Stormwater Management - Managing Runoff, Erosion and Sediment Controls for Construction Sites, Erosion and Sediment Controls - Managing Erosion, Stormwater BMPs - Wet Ponds
- U.S. Environmental Protection Agency, training/certification: Construction General (stormwater) Permit Site Inspector

## 2022

- Eurofins Environmental Testing, webinars: PFAS Update (2022), PFAS Basics (2022)

- Solid Waste Association of North America (SWANA), courses: Landfill Operations Basics, Landfill Gas Basics
- Safety Unlimited, Inc., course: Asbestos Awareness/General Industry and Construction
- University of Alabama/UA SafeState, training/certifications: Asbestos Inspector, Asbestos Management Planner

2021

- Eurofins Environmental Testing, webinars: PFAS update (2021), PFAS Basics (2021), PFAS Sample Collection - State of the Science (2021), PFAS in Source and Ambient Air; PFAS Forensic Tools, PFAS Navigating Analytical Method Options
- StormwaterONE, LLC, webinar: Urban Hydrology and Green Stormwater Infrastructure
- University of New Hampshire/UNH Stormwater Center, Stormwater Management Certificate, with courses: Stormwater Site Design, Stormwater Hydrology, Stormwater Modeling, Stormwater Construction - Erosion and Sediment Controls, Treatment System Design/Post Construction Performance Estimates

2020

- Interstate Technology and Regulatory Council (ITRC), training class: Emerging Contaminants - PFAS

2018

- Florida Department of Environmental Protection, training/certification: Stormwater, Erosion, and Sedimentation Control Inspector
- Alabama Department of Environmental Management, training/certification: Qualified Credentialed (stormwater) Inspector

## **SERVICE ACTIVITIES**

### **Professional**

- Judge, American Institute of Hydrology DEI scholarship selection committee, 2025
- Geological Society of America Membership & Fellowship Committee member, 2023-present
- Treasurer/Board member, American Institute of Hydrology of Directors, 2024-present
- Geological Society of America Professional Development Committee member, 2020-23 (Chair-Elect, 2021-22, Chair, 2022-23)
- Mentor, John Mann Applied Hydrogeology Mentorship Program, 68<sup>th</sup> Meeting of the Geological Society of America Southeastern Section. Charleston SC, 2019
- Edward K. Aldag, Jr. Business Plan Competition judge, University of Alabama, Alabama Entrepreneurship Institute, 2018
- University of Alabama Department of Geological Sciences Advisory Board member, 2017-19
- Hydrology Section, Outstanding Student Paper Awards judge, American Geophysical Union Fall Meeting, 2017
- Southwest Alabama Geological Society member, 2009-11 (President, 2009-11)

### **Community**

- Australian Conrad Spirit of Innovation Challenge judge, 2017-18
- U.S. Conrad Foundation Spirit of Innovation Challenge judge, 2016-17

- Member of the Board of Directors, Mobile (Alabama) Symphony Orchestra, 2014-16
- Three Mile Creek Restoration Plan Advisory Board member, 2013-14
- Weeks Bay Foundation Habitat Restoration and Management Advisory Board member, 2010-11
- Alabama Governor's Coastal Recovery Commission Higher Education Subcommittee advisor, 2010
- NASA Develop Program science advisor, 2009-11
- Instructor, 21<sup>st</sup> Century Community Learning School Summer Science Camp, 2007
- Instructor, World Wildlife Fund Allianz Southeast Climate Camp, 2008
- Instructor, Geology Belt Loop, Cub Scouts, 2007-15
- Member of the Board of Directors, Smart Coast, 2007-11 (Secretary, 2009-11)
- Director, Mobile Regional Science and Engineering Fair, 2005-14
- Mobile County (Alabama) Public School System Science Textbook Committee member, 2005-06

#### **Academic (University of South Alabama)**

- Member of the Council of Academic Deans, 2015-16
- Member of the University Academic Success and Retention Committee, 2015-16
- Member and Chair Member of the Global Engagement Committee - Research Subcommittee, 2014-15
- University Committee on Undergraduate Research Mentor, 2014-15
- Member and Chair of the Curriculum Development Committee, School of Continuing Education & Special Programs, 2012-13
- Member and Chair of the Grant Development/Research Committee, School of Continuing Education & Special Programs, 2012-13
- Member and Chair of the Strategic Planning Committee, School of Continuing Education & Special Programs, 2012-13
- Member of the University of South Alabama National Alumni Association Board of Directors, 2011-16
- Faculty Advisor, Society of American Military Engineers Student Chapter, 2011-12
- Member of the University Sustainability Committee, 2011-12
- Member of the University Environmental and Safety Committee, 2010-13
- Member of the Environmental Toxicology Graduate Program Advisory Board, 2010-12
- Member of the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Reaccreditation Leadership Team, 2010-11
- Member of the Commencement Speaker Advisory Committee, 2010-12
- Member of the University Budget Council, 2010-12
- Member and Chair of the Council on International Education and Scholarship, 2013
- Member of the University Athletics Council, 2010-11
- Member of the University Committee on Electronic Learning, 2010-11
- Member of the Advisory Committee on Diversity, 2009-12
- Member of the Academic Affairs Policy Committee, 2009-12 (Chair, 2010-11)
- Member of the University Long-range Planning Committee, 2009-12
- Faculty Advisor, Student Sustainability Council, 2008-12

- Member of the Conflict of Commitment and Financial Interest Committee, 2008-12 (Chair, 2012)
- Member of the Faculty Awards Committee, College of Arts and Sciences, 2008-10
- Member and Chair of the Field Trip Safety Committee, Department of Earth Sciences, 2006-10
- Member and Chair of the Geology Program Assessment Committee, 2007-12
- Member of the Scholarship Committee, College of Arts and Sciences, 2005-06
- Member of Search Committees for:
  - Associate Dean, College of Education (Chair), 2013
  - Instructor, English as a Second Language (Chair), 2013
  - Director, International Education Programs (Chair), 2013
  - Associate Dean, College of Art and Sciences, 2011
  - Assistant Dean, College of Art and Sciences, 2011
  - Dean, School of Continuing Education, 2010
  - Dean, College of Arts and Sciences, 2009
  - Chair, Department of Earth Sciences, 2006

## **MEDIA APPEARANCES**

### **Print/Online**

Time.com, “Why a grocery chain is pulling water bottled 25 miles from the East Palestine derailment”, S. Mansoor, 2/27/23

The Dothan Eagle, “SoZo encourages innovative disruptions at leadership meeting”, E. Davis, 9/9/15

Gulf Coast News Today, “South Alabama expanding Gulf Shores campus”, J. Mullen, 7/24/15

BARTA 24 Bangladesh, “International University of Business, Agriculture, and Technology (Bangladesh) and University of South Alabama educational agreements”, Z. Hossain, 12/18/13

Mobile Press-Register, “Water worries building in Baldwin County”, B. Raines, 10/23/11

Mobile Press-Register, “USA scientists to set up real-time air monitoring system”, R. Henderson, 7/3/10

Mobile Press-Register, 2/17/08, “Weeks Bay harmful blooms”, R. Dezember

### **Television**

FOX Weather Channel, 9/25/23, “FOX Weather Live”, interview on the Mississippi River saltwater wedge (<https://www.foxweather.com/earth-space/salt-water-threatens-louisiana-drinking-water-supply>)

NBC Connecticut, 11/12/22, “A homeowner's nightmare: Deserted Coventry land causing problems for neighbor”, C. Burchill and S. Pancione (<https://www.nbcconnecticut.com/investigations/nbc-ct-responds/a-homeowners-nightmare-deserted-coventry-land-causing-problems-for-neighbor/2920645/>)

WTVY News, 7/28/15, “East meets West, a report on the Huawei Corporation”, M. Hackett

ATN BANGLA (Bangladesh), 12/18/13, “International agreement between the University of South Alabama and the International University of Business, Agriculture, and Technology of

Bangladesh”

Fox 10 News, 11/11/13, “Reality check: Cancer cluster study”, A. Ramey

WKRG News 5, 4/30/10, live interview on the Deepwater Horizon oil spill

**Radio**

FM Talk 106.5 Morning Show, 9/14/11, interview on a Birmingham AL earthquake

FM Talk 106.5 Morning Show, 3/11/11, interview on the Great East Japan Earthquake

FM Talk 106.5 Morning Show, 2/21/11, interview on a Gulf Shores AL earthquake

FM Talk 106.5 Morning Show, 7/20/10, interview on methane from Deepwater Horizon oil spill

WHIL FM, 6/26/10, Alabama Public Radio, “Mobile Matters”, interview on the Deepwater Horizon oil spill

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