



Curriculum Vitae

JAMES J. CONNORS, PH.D.

DEGREES

Ph.D., Marine Sciences, University of South Alabama, 2007 (Dissertation: Groundwater flow dynamics and associated inorganic nitrogen transport, Weeks Bay, Alabama)
M.S., Geology, University of Alabama, 1990 (Thesis: Structure of a part of the Birmingham Anticlinorium, Alabama)
B.S., Geology, University of South Alabama, 1983

CURRENT LICENSES/CERTIFICATIONS

Professional Geologist: Alabama (No. 1468), Mississippi (No. 940), New York (No. 311)
Professional Geoscientist: Louisiana (No. 80), Texas (No. 4065)
Florida Stormwater, Erosion, and Sedimentation Control Inspector, Florida Department of Environmental Protection (No. 40130)
OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) certification

PROFESSIONAL ORGANIZATION MEMBERSHIPS

Geological Society of America, Life Member; member of the *Membership and Fellowships Committee*, 2023-26; member of the *Professional Development Committee*, 2020-23 (chair, 2022-23)
Sigma Gamma Epsilon (The National Honor Society for the Earth Sciences), Life Member
Sigma Xi (The Scientific Research Honor Society), Member-at-Large and Past Chapter President

AWARDS/HONORS

Named one of the *50 Outstanding Faculty Members* in the history of the University of South Alabama, 2013
Presented *Chang Endowed Award for Humanitarian Service*, University of South Alabama, 2013
Named *Principal Emeritus*, Eco-Systems, Inc./Allen Engineering & Science, 2013
Presented *Outstanding Service* award, University of South Alabama College of Arts & Sciences, 2011
Presented three Mortar Board *Top Prof* awards, University of South Alabama Chapter, 2011-12
Elected *Chapter President*, Sigma Xi (The Scientific Research Honor Society) University of South Alabama chapter, 2011-13
Elected *Faculty Senate President*, University of South Alabama, 2010-11
Presented *Faculty Member of the Year* award, University of South Alabama Student Government Association, 2010
Elected to *Sigma Xi* (The Scientific Research Honor Society), 2009
Presented *Faculty Member of the Year* award, University of South Alabama Student Government Association, 2009
Elected *President*, Southwest Alabama Geological Society, 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), 1983

PROFESSIONAL EXPERIENCE

Private-Sector

Applied Hydrological Education, Inc., Fairhope AL, 2016-present
Principal Scientist (1/16-present)

James J. Connors & Associates, LLC, Fairhope AL, 2013-present
President/Principal Scientist (2/13-present)

Eco-Systems, Inc. (now Allen Engineering & Science), Jackson MS/Fairhope AL, 1993-2013
Co-founder/Senior Principal Scientist (2/93-2/13); Retired as *Principal Emeritus* (2/13)

Exsorbet Industries, Inc., Little Rock AR/Jackson MS, 1995-1999
President/Chief Executive Officer/Chairman, 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 for Sales and Business Development (4/96-1/98)
Senior Principal Hydrogeologist (12/95-4/96)

Woodward-Clyde Consultants, Jackson MS, 1989-1993
Vice President (8/91-5/93)
Operating Unit Manager (8/90-8/91)
Office 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
Hydrogeologist/Computer Modeler (7/85-6/86)

Academic (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 (1/05-1/08)
Part-time Instructor, Department of Earth Sciences (1/03-1/05)

Administrative Positions

Interim Dean, School of Continuing Education & Special Programs (1/15-1/16)
Special Assistant to the Vice President for Research & Economic Development (12/13-1/15)
Associate Dean, School of Continuing Education & Special Programs (3/12-12/13)
Interim Director of International Education (2/13-11/13)
Interim Chair, Department of Developmental Studies (8/12-12/13)
Interim Vice President for Research (3/12-8/12)

SELECTED PROJECT EXAMPLES

Expert witness for Plaintiffs in a Mobile County (Alabama) Circuit Court case involving alleged offsite destruction/conversion of resources *and* contamination of surface water, soil, sediment, biota, and groundwater by leachate and gas discharges from an adjacent municipal solid waste landfill. The alleged contaminants consisted of inorganic and organic chemicals and included per- and polyfluoroalkyl substances (PFAS). Work involved multiple site inspections, several sampling events, observation/critique of opposing experts' field work and documentation, critique

of expert reports and supplemental reports from four opposing experts, preparation of an expert and supplemental/rebuttal report, two depositions, trial testimony, observation of opposing expert testimony, and other work.

- Expert for Defendants in a Marshall County (Alabama) Circuit Court case involving alleged flooding of a residential complex by stormwater runoff from an adjacent construction site during a particular rainfall event. Reviewed file, inspected site, researched the specific storm event, critiqued opposing expert's statement, and advised attorneys.
- Expert for Plaintiffs in a U.S. District Court, Northern District of Mississippi, case involving alleged negative impacts of stormwater runoff onto a private pond from an adjacent industrial facility. Work included research and file review, site inspections/interviews, sampling, producing an expert report, and sitting for a deposition.
- Expert witness for Defendants (U.S. government) in an environmental remediation contract dispute before the U.S. Armed Services Board of Contract Appeals. The case involved groundwater depths and disposal of asbestos-containing wastes in a coastal/backshore environment. Work included file review, site inspection/interviews, expert and rebuttal reports, review of opposing expert report, deposition, and assisting attorneys with opposing expert deposition.
- Expert for Plaintiff crude oil purchaser/pipeline company in a U.S. District Court, Western District of Louisiana, case focused on the origin of a large oil spill that appeared suddenly in an old production and pipeline complex. Reviewed file and public records, inspected site, researched local hydrogeology and petroleum exploration history, and produced an expert report and associated affidavit.
- Expert for Plaintiff in a Mobile County (Alabama) Circuit Court case involving alleged stormwater runoff (via overland flow and groundwater/throughflow) from a neighborhood to an adjacent/downhill property and its associated negative impacts (flooding, erosion, sediment deposition, etc.). Reviewed file, performed multiple site inspections, observed soil borings, produced expert and rebuttal reports, reviewed multiple opposing expert reports, gave two depositions, developed demonstrative evidence, and testified at trial.
- Consulting expert for Plaintiffs in a case involving contamination on rural residential properties related to a gasoline pipeline break and explosion/fire. Reviewed data and documents, inspected site, collected samples/evaluated results, and advised attorneys.
- Expert for Plaintiffs in a Jackson County (Mississippi) Circuit Court case involving alleged impacts of stormwater runoff onto a residential property from an adjacent hotel/restaurant property. Work included research, file review, a site inspection, and an expert report.
- Expert for Plaintiffs in a northern Alabama U.S. District Court, Northern District of Alabama, class-action lawsuit in the involving alleged contamination by perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA), and other long- and short-chain per- and polyfluoroalkyl substances (PFAS) in a river and associated municipal water-supply system in north Alabama. Work involved the review of case-related documents and surface water, sediment, soil, groundwater, and NPDES discharge data, as well as research into regulatory databases, production of an expert report and affidavit, review and critique of opposing expert's report and affidavit, assisting attorneys with deposition preparation, and site inspections of facilities involved.
- Retained as a consulting expert for defense in a central Alabama circuit court case to examine the potential impact of groundwater on the structural stability of a large building complex. Reviewed file, researched local hydrogeology, visited site, and advised attorney.

Expert witness for Plaintiffs in a Mobile County (Alabama) Circuit Court case involving alleged negative impact by nearshore sediments, mobilized and transported from an island nourishment/restoration project, on local coastal aquaculture operations. Work included site inspections, file review, research, preparation of an expert report, sitting for a deposition, technical assistance with filings, and preparation for trial testimony.

Consultant for Defendants in a case involving the break of an offshore Louisiana petroleum pipeline that was alleged to have been caused by dredging activities. Involved civil and potential criminal action. Reviewed file, performed research, and advised attorneys.

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

Expert for Defendants in a U.S. District Court, Middle District of Louisiana, case involving the accidental collision of a tug/barges and an anchored dredging vessel. Reviewed facts, performed research, and rendered a report on the hydrological factors involved in an accident.

Consulting expert advising a Plaintiffs' attorney group on possible links between groundwater contamination and cancer cases in a rural town/area. Performed site and well inspections, visited closed alleged source facility, reviewed file and data, and performed hydrogeological research. Case involved public and private wells, surficial and artesian aquifers. and groundwater contaminants (radiation and plasticizers).

Expert witness for Plaintiffs in a 3rd Judicial District Court of Union Parish (Louisiana) case involving extensive flooding, erosion, sediment deposition, environmental damage, and water-quality degradation resulting from the construction of a large high school. Reviewed case documents and historical site/aerial photographs, researched local hydrology and rainfall data, and produced an expert report.

Expert witness for Defendants in a 113th Judicial District Court of Harris County (Texas) case involving alleged erosion and mass wasting resulting from Hurricane Harvey's record rainfall and flooding in the Houston area. Work involved file review, including surveys, maps, photos, and depositions, as well as external data, research, literature, and videos. An expert report was prepared.

Consulting expert for Defendants in a case involving alleged above-ground fuel storage tanks regulations violations that may have contributed to a fire-related personal injury. Reviewed file/photos, performed research, and advised attorney.

Expert witness for Plaintiff in a U.S. District Court, Western District of Tennessee, subrogation claim involving a building fire allegedly caused by stormwater-related flooding of a subsurface electrical vault. Reviewed case file, inspected site, researched local rainfall/humidity and hydrology, assisted attorney with opposing expert deposition preparation, and produced an expert report.

Consulting expert advising law firm on possible hydrological causes of a collision between a large industrial vessel and a barge in a south Louisiana bayou. Case documentation was reviewed, research was performed, and technical advice given.

Expert witness for Defense in a U.S. District Court, Southern District of Mississippi, case involving alleged large-scale sediment erosion and transport from a large-scale construction project via stormwater, and deposition of sediment in a large coastal Mississippi estuary. Reviewed file and associated literature, read opposing expert's report and supplement, reviewed current and

historical maps, rainfall data, and soil data. Conducted site inspections, produced Daubert-related affidavits challenging opposing expert's methods, prepared an expert report, and gave a deposition.

Expert witness for defense in a Marquette County (Michigan) Circuit Court case involving an alleged raw sewage and chemical release and contamination into a river located in the Upper Peninsula of Michigan. Reviewed file documents (photos, depositions, produced documents, etc.), researched current and historical maps, photos, and rainfall and wind data. Conducted a site inspection. Produced an expert report.

Consulting expert for Defendants in a Marshall County (Alabama) case involving stormwater-related damage at a residential property alleged caused by landscaping work. Reviewed file, conducted research, and advised attorneys.

Expert witness for Plaintiffs in a 19th Judicial District Court Parish of East Baton Rouge (Louisiana) case involving an alleged trespass and land taking for "natural" drainage purposes in central Louisiana. Reviewed file, researched historical aerial photos and historical topographical maps, wrote an expert report, and gave a deposition.

Expert for Plaintiffs in a Baldwin County (Alabama) Circuit Court case involving significant amounts of sedimentation in an Alabama coastal estuary. Conducted multiple site inspections and GPS mapping of sediment and associated transport routes, collected and analyzed grain-size samples, reviewed file and site-specific (current and historical) data, maps, aerial photos, and plans/specifications. Participated in multiple mediation meetings and, at the direction of the client, worked with opposing experts.

Consulting expert for potential Plaintiff in a situation involving potential flooding of a residential area due to construction/alterations on adjoining, higher-elevation properties.

Expert witness for Defense in a U.S. District Court, Southern District of Mississippi, case involving an unintended expansion of a coastal wetland due to increased stormwater inflow and associated sediment, erosion, and organic material transport/deposition over time. Reviewed multiple deposition transcripts, soils data, aerial and site-specific photos, and opposing expert reports. Conducted multiple site inspections and mapped local stormwater flow. Researched the site and latest science on the subject. Supported attorneys with the depositions of opposing experts. Prepared an expert report.

Expert for Defendant in a Mobile County (Alabama) Circuit Court case involving stormwater-related flood on one commercial property by another located uphill. Conducted multiple site inspections, used drone to recon the sites involved, mapped current/historical sediment and sedimentological runoff evidence, reviewed historical maps and aerial photos, wrote an expert report, and gave a deposition.

Expert witness for Plaintiffs in a Baldwin County (Alabama) Circuit Court case involving stormwater-related flooding of a residence by neighborhood runoff in a coastal Alabama city. Reviewed file documents, researched hydrology of the area, utilized historical aerial photos and rainfall data, assisted attorney with opposing experts' deposition preparation, reviewed opposing experts' depositions, conducted multiple site inspections, mapped local stormwater flow, and produced an expert report.

Expert for Defendants in a Conecuh County (Alabama) Circuit Court case involving alleged stormwater-related flooding of a residential property by stormwater draining from a housing development. Conducted site inspections, reviewed current and historical aerial photos and

videos, as well as plans and specifications and local/historical rainfall data. Reviewed proposed remedy and assisted attorney with technical details in proposed settlement documents.

Consulting expert for potential Plaintiffs in a pre-litigation situation involving flooding and sediment deposition on a residential property potentially being sourced by stormwater runoff on an adjacent, uphill industrial/commercial property.

Expert witness for Defendants in Carroll County (Indiana) Circuit Court case involving the alleged involvement of construction site stormwater runoff and associated sediment erosion/transport onto a highway with a fatal traffic accident. Reviewed file and site literature/data, including opposing experts' reports, depositions, construction specifications, topographical maps, accident-scene video and photos, and historical remote-sensing and rainfall data. Conducted site inspection and infiltration field tests. Produced an expert report.

Expert witness for Plaintiffs in a U.S. District Court, Southern District of Alabama, case involving extent and environmental impacts from a large, 1970s (4+ million gallon) petroleum residuum spill in an Alabama coastal wetland. Work involved site inspections, sample collection, document review, and production of an expert report.

Consultant for Defense in a Bibb County (Alabama) Circuit Court case involving alleged damage to a pond and dam due to a vehicle accident. Reviewed file, performed a site inspection, and provided technical assistance to attorneys.

Consulting expert for potential Plaintiffs in a situation involving sink-holes that were forming and potentially damaging adjacent homes/yards in a country club/residential neighborhood.

Expert witness for Plaintiffs in an American Arbitration Association arbitrated case regarding the fate, transport, and timing of subsurface free-phased and groundwater-dissolved chemicals at a riverside refinery in West Virginia. Reviewed file documents, produced expert and rebuttal reports, gave testimony as an expert in contaminant hydrogeology during the arbitration hearing, produced computer models of site groundwater flow, met with regulatory agency personnel, performed a site inspection, and provided technical assistance to attorneys.

Expert witness for Plaintiffs in a Lincoln County (Mississippi) Circuit Court case involving long-term environmental impacts associated with crude oil and brine from a pipeline release on private property. Reviewed case data and documents, sampled soil and groundwater, produced an expert report, and gave a deposition.

Expert witness for Plaintiff in a Mobile County (Alabama) Circuit Court case involving alleged residential flooding associated with groundwater springs. Data and reports were reviewed, technical support was provided to attorneys during the deposition of opposing expert, a deposition was given, and trial testimony as a hydrology and hydrogeology expert was provided.

Expert witness for Plaintiffs in Marion County (Mississippi) Circuit Court case involving large-scale subsurface gasoline contamination from a fuel pipeline leak that occurred approximately 30 years earlier. Reviewed data and case-related documents, produced an expert report, gave a deposition, and testified at trial as an expert in contaminant hydrology and environmental science.

Expert witness for Defendants in a U.S. District Court, Southern District of Mississippi, case involving alleged hydrocarbon and brine contamination associated with a pipeline break in an oil field. Work involved a file review, production of an expert report, a deposition, peer review of opposing the expert's work, and assisting attorneys with opposing expert deposition preparation and the production of a Daubert motion.

Expert witness for defense in several related Hinds County (Mississippi) Circuit Court cases involving alleged oilfield brine contamination of groundwater aquifers. Files were reviewed, a literature review was performed, and several expert reports produced.

Expert witness Plaintiff in a U.S. District Court, Northern District of Illinois, case that involved alleged trespass in a watercourse and defamation claim. Documents, maps, photos, and videos were reviewed, research was performed, and an expert report was produced.

Consulting expert for Defendants in a case involving potential airborne contamination from a steel manufacturing facility. Reviewed previously-collected data and documents submitted, critiqued opposing expert's reports and opinions.

Expert witness for Defendants in a U.S. District Court, Southern District of Mississippi, case involving potential contamination of surrounding properties from a closed coastal construction-demolition debris landfill. Case documents were reviewed, an expert report was produced, research was performed to rebut opposing expert's opinions, a deposition given, and consulting was provided for the cross-examination of the Plaintiff's expert.

Expert witness for Defendants in a Lowndes County (Mississippi) Circuit Court case settlement hearing that involved the assessment and remediation of sediment-transported PCBs in a contaminated wetland area in northeastern Mississippi. Reviewed remedial investigation data and details of the proposed remedy, gave courtroom testimony as a contaminant hydrogeologist and hydrologist, addressing the technical adequacy of the proposed work.

Consulting expert for Defendants in a case involving the timing of PCB releases at a contaminated metals facility. Reviewed data to determine timing of contamination; assisted in depositions of opposing experts.

Performed groundwater computer modeling for a legal case involving potential regional drawdown from a proposed large water-supply wellfield in a karst aquifer system. Reviewed regional hydrogeological data, prepared input files, ran numerous MODFLOW simulations, calibrated and verified models, and prepared courtroom graphics to demonstrate model results.

Testimony before the Atlantic States Marine Fisheries Commission on menhaden population dynamics in Chesapeake Bay. Researched issue and prepared/provided a public-comment statement during a commission meeting on behalf of a commercial protein/omega-3 fatty acids products company.

Consulting expert for a plaintiff-attorney group exploring a potential case involving MTBE contamination in the environment. Reviewed literature/research, planned and performed sampling of surface water bodies, advised attorneys.

Hydrological consultant on a stream restoration and conservation project in an urbanized Mississippi coastal stream. Work included site inspections, public meeting participation, and consultation with engineering firm to help them determine needed restoration actions.

Consultant on the formation of a potential sinkhole in southern Alabama. Performed a site inspection and research, then produced a report.

Hydrological evaluation of recharge rates of a naturally occurring karst spring used for bottled water production. Site was in the Appalachian fold-and-thrust belt in central Alabama. Work involved file and geological review, pumping (time/drawdown) testing, specific capacity testing, recharge testing. A report and list of recommendations were produced.

Statewide screening of historical groundwater information for an international corporation to produce detailed maps and tables showing the potential locations of groundwater with specific

temperature, salinity, production, and depth characteristics for a special industrial use in Louisiana. Once screening was completed, shortlisted properties were evaluated in greater hydrological detail and ranked for potential acquisition.

Planned and managed a regional environmental audit program (for detection of regulatory compliance issues) for a large oilfield and industrial services company in Mississippi and Louisiana. Included working with client personnel to set goals and develop a standardized evaluation rubric, site visits and file reviews, targeted environmental sampling at several large facilities in U.S. Gulf Coast region.

Consultant evaluating the potential for contamination and other hydrological impacts on a solid-waste transfer station property by an adjacent leaking dam and associated stormwater pond at a metal processing facility. Work included research, site inspections, well and seep sampling, and a report.

Compliance and property transfer environmental investigations for a major oil company involved with the divestiture of hundreds of gasoline retail outlets in the Florida Panhandle and southern Alabama. Work involved the development and implementation of phased site audits, file reviews, and targeted subsurface investigations.

Site audits and property transfer environmental investigations for numerous properties targeted for acquisition by a large gaming/casino company in Mississippi. Work involved regulatory and site investigations, and additional intrusive investigations and remediation when contaminated sites were detected.

Developed mutually agreed to baseline environmental/health & safety (EHS) standards in a Southeast Asian country for a major U.S. oil company. Work involved researching and negotiating standards, writing the regulatory document, arranging for official acceptance/signing, implemented/training personnel onsite, and auditing/accessing implementation.

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; sampling drums; site characterization; and quantifying releases. Contaminants were TPH, chlorides, and oil field wastes. Impacted media: soils and groundwater.

Contracted by a major oil company to implement a pre-transfer environmental/regulatory audit and investigation of a large onshore oil and gas field in southern Mississippi. Work involved file reviews, visits to wells and process areas, interviews with company employees, and sampling of suspected contaminants and wastes. Remediation was implemented, where appropriate.

Performed numerous site environmental/health & safety (EHS) audits at facilities operated by a U.S. government scientific agency along the Gulf Coast. Work involved general research of the facilities, site visits, employee and management interviews, onsite file reviews, and final report preparation.

Pre-acquisition audit and investigation of a large rice processing facility in Mississippi. The scope of work included reviews of all regulatory files, onsite file reviews and former employee interviews, visual evaluation of the property, and targeted sampling of suspected contamination sites.

Consultant on a large-scale National Institutes of Health (NIH) project investigating health impacts of the Deepwater Horizon oil spill in eastern Gulf Coast communities. Collected creel survey data from subsistence fishers and catch biota samples for contamination analysis.

Watershed-wide contamination assessment and long-term monitoring of a large oil producing area in central Mississippi. Work involved a largescale field reconnaissance, the assessment of chloride

impact on surface waters through a review of LANDSAT images, and quarterly monitoring (for five years) of 25 miles of streams and tributaries in a mature oil field.

Hydrogeological evaluation, monitoring system design and installation - municipal solid waste landfill in Mississippi. Analyzed regional and local hydrogeological data to decipher local hydrogeology, installed pilot borings to confirm interpretations, performed EM and gamma ray geophysical logging of boreholes and monitoring well installations, designed a multi-aquifer monitoring system, and carried out an aquifer testing program at a Subtitle D landfill.

RCRA Subtitle D landfill monitoring system design/installation/testing. Project involved review of existing geological and hydrological data associated to resolve the local hydrogeology and design a statistically effective groundwater monitoring system in coastal Mississippi. Work included drilling and lithological logging of numerous pilot borings to confirm hydrogeological interpretations, monitoring well installations, and aquifer testing.

Hydrological consulting on a project involving the characterization and remediation of acid- and ammonia-contaminated groundwater at a coastal Mississippi fertilizer plant.

Assessment, monitoring, and in-situ/active risk-based remediation of sediment- and groundwater-transported contaminants at over 40 natural gas compressor stations from Mississippi to New York. Delineated horizontal/vertical extent of contamination, monitored sites long-term, remediated soils by excavation and using in-situ injection of chemicals.

Used groundwater computer modeling to quantify drawdown, dewatering, and settlement under a proposed Mississippi coast casino dry-dock. The proposed design required no long-term settlement potential beneath the facility, despite the occurrence of highly compressible subsoils in the area and huge anticipated structural loads. The model showed that groundwater below the facility could be depressed through a system of peripheral shallow and deep wells, so that the soil could be pre-settled, preventing future movement. The overall project won an ENR "Project of the Year" award.

Water-quality/aquifer testing and modeling project. Performed pumping tests and real-time water-quality monitoring on an aquifer in northwest Florida to collect input data for a computer model that would predict the proper pumping rates for a shallow, seaside wellfield that was experiencing saltwater intrusion. Data were used to calibrate and run a hydrological computer model that predicted saltwater intrusion dynamics.

Hydrogeological study/modeling, Mississippi solid waste landfill. Work involved the correlation and review of existing regional and local hydrogeological data, as well as new data gathered from an onsite boring/down-hole geophysics program. Objective was to decipher local hydrogeology and determine if an alternative (natural clay) landfill liner was scientifically sound. Project also involved use of hydrogeological computer models to demonstrate viability of an alternative liner design and modified groundwater monitoring system. Work included map and cross-section generation, pilot borings to confirm interpretations, geophysical logging of boreholes, monitoring well installations, and aquifer testing.

Performed hydrogeological/environmental baseline studies for a National Estuarine Research Reserve administered by NOAA at a coastal Alabama site. The work evaluated (1) the environmental impact of past agricultural land uses in a 63-acre wetland that had suffered from hydrological alterations, invasive species, and a heavy fuel load, and (2) an abandoned mobile home park slated for restoration to its natural state.

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 at standard key geomorphological features along each transect.

Feasibility study/design of beneficial use of dredge spoils in coastal Mississippi. Work included grain-size analysis of lagoon sediments near a proposed casino resort of a pilot-scale coastal erosion protection structure constructed using dredge spoils. Work compared native grain sizes to those in spoils material to determine the long-term viability of the project and establish a baseline for post-construction monitoring.

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.

Baseline aquifer characteristic study of a proposed phosphate mining site in central Florida. Soil borings and test wells were drilled at a large property slated to become a large phosphate mining operation so that a post-mining reclamation plan could be developed.

Regional ambient water-quality study in northern Florida. Hundreds of water wells from various aquifers were identified and sampled for a broad list of parameters to get a baseline snapshot of groundwater quality.

Municipal water-supply wellfield design, installation, and testing in central Florida. Project involved the design of a large-scale withdrawal water-supply wellfield for the Tampa, Florida metropolitan area. The target aquifer and production zones were selected. Test borings were drilled and logged. Several water wells and associated monitoring wells were drilled to depths of over 2,000 feet. These wells were also pump tested and water-quality tested.

Water-quality investigation at a beverage production facility in central Florida. Project involved the drill-stem testing of a water-supply well to determine the source and character of microbial contamination in the aquifer. Zones within the well were isolated using inflatable down-hole packers, sanitized, then tested to determine the exact source and nature of the contamination.

Aquifer testing, large Defense Department contractor's testing facility. Performed pumping tests and slug tests on several monitoring wells at a large DoD contractor testing facility in central Florida. Analyzed data using computer software to determine a wide range of aquifer characteristics.

Water-supply alternatives study. The scientific literature and regional well logs were reviewed and water-quality data was collected over a large part of east-central Florida to develop water-supply alternatives for a growing area of the state that was experiencing saltwater intrusion in its water-supply source.

Regional water-supply assessment/development project. Project included assessment of water supply and water-quality potential of brackish groundwater resources of a populous county in west central Florida. The purpose of this study was to determine the feasibility of developing several low-pressure reverse-osmosis wellfields as a supplemental source of county water supply.

Performed wetland delineation for oil exploration properties that were located near marsh areas in Mississippi. Work involved site visits, delineation of wetland areas based on flora and soil conditions, and generation of site-specific reports.

Multi-phased, multi-year, remedial investigations at ten natural gas compressor stations in Mississippi. Included work plan and report preparation; regulatory interaction and negotiation; and soil, sediment, and groundwater characterization. The contaminants were PCBs and TCL/TAL compounds.

Contamination assessment/risk-based remedial design for waste-oil dump sites. Work involved delineation of soil, groundwater, and sludge impacts at three abandoned waste-oil dump sites, development of risk-based clean-up goals, and remedial design. A site-specific risk assessment was prepared to support a target TPH clean-up level.

Remedial investigations, multiple wood-treatment sites. Work involved assessment of extent of wood-treatment waste (PCP) 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).

Senior oversight for a 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 involving soil borings/sampling, monitoring well installation and groundwater sampling, aquifer testing, and horizontal drilling techniques.

Groundwater and soil contamination investigations at 35 natural gas compressor stations located in Texas, Louisiana, Mississippi, Alabama, Tennessee, Kentucky, Ohio, Pennsylvania, and New York. Project included program development; preparation of work plans and reports; regulatory interaction and negotiation; and implementation of field activities. Contaminants included PCBs, VOCs, semi-volatiles, and various metals.

RCRA facility contamination assessment/remediation. Work involved a large-scale remedial investigation at a RCRA facility in a highly faulted area of Alabama. Contaminants were pesticides and related compounds that had been released into the subsurface. Included groundwater sampling and monitoring/recovery well installation.

Remedial investigations at two U.S. Air Force bases. Work involved several 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.

Site characterization at 16 natural gas compressor stations in several states. Project included implementation of phased contamination assessment activities, screening of sites for surface and subsurface PCB contamination, and report preparation.

Assessment monitoring, solid waste landfill. Project involved planning and implementation of a gas and groundwater investigation at a Subtitle D landfill that was triggered by detection monitoring results. Included soil-gas surveys, onsite laboratory analysis, soil sample screening, and monitoring well installation and sampling.

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.

Delineation of contamination associated with buried waste pits at a planned industrial park. Work involved the use of remote-sensing images, field reconnaissance, and soil/groundwater sampling to locate oil waste-filled pits and determine the impact of pits on human health and the environment. Contaminants included semi-volatiles and acids.

Contamination assessment/remedial action planning - Mississippi rail yard. Delineated extent of diesel fuel contamination in the subsurface. Work involved the drilling/sampling of soil borings and installation/sampling of several temporary and permanent groundwater monitoring wells.

- Remedial investigation, petroleum bulk storage terminal. Involved assessment of soils and groundwater. Work performed included installation of groundwater monitoring wells, groundwater sampling, free-product gasoline finger printing, and remedial planning.
- Contamination assessments/remediation at six large petroleum storage terminals in Florida and Alabama. Work involved field contamination screening with a mobile laboratory, soil-gas surveys, installation of soil borings and groundwater monitoring wells, groundwater/soil sampling, free-product gasoline finger printing, remedial planning, and remediation system installation/operation and maintenance.
- Contamination assessments and remedial actions at over 30 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 gasoline finger printing, remedial planning, and remediation system installation/operation and maintenance.
- Contamination assessment at a natural gas transmission facility in central Alabama. Acquisition of soil samples using direct-push method to delineate the horizontal and vertical extent of soil contamination (PCBs, volatile organic compounds, and polycyclic aromatic hydrocarbons).
- Leaking underground storage tank site investigation/remediation. Work involved subsurface investigation and removal of free-phased hydrocarbons from groundwater using Mobile Enhanced Multi Phase Extraction at a gasoline retail outlet in southern Alabama.
- Contamination investigation for a large UST facility in Mobile, Alabama. Supervised field activities including soil borings, collection of soil samples for petroleum hydrocarbons analysis, monitoring well installation, site survey, and sensitive receptor survey. An investigation report was prepared under regulatory guidelines.
- Leaking underground storage tank site investigation. Acquisition of soil and groundwater samples using direct push method and completion of Risk-Based Corrective Action report for state regulators including risk calculations for a leaking underground storage tank facility in Mobile, Alabama.
- Assessment of chlorinated solvents in soil and groundwater at a metal stamping facility in Alabama. Work included characterization of surface conditions; delineation of the horizontal and vertical extent of DNAPL contamination using hydraulically-driven probes and bedrock monitoring well; and use of pumping/slug tests.
- Groundwater assessment, long-term monitoring, and remediation at a natural gas compressor station in Alabama. Performed a subsurface investigation of the horizontal and vertical extent of chlorinated solvents contamination; conducted a sensitive receptor survey; installed and monitored onsite and offsite monitoring wells; used in-situ chemical remediation to abate contamination.
- Groundwater assessment, monitoring, and in-situ chemical remediation at a natural gas compressor station near Houston, Texas. Involved delineation of the horizontal and vertical extent of subsurface contamination; long-term monitoring; and in-situ chemical remediation of chlorinated solvents.
- In-situ chemical remediation of hydrocarbon contamination. Work involved the injection of Oxygen Release Compound (ORC) into the subsurface at a leaking UST facility remediation site in Alabama. Purpose was to affect in-situ remediation of released petroleum hydrocarbons by altering redox chemistry of the local aquifer and vadose zone.

Site investigation, remediation, and post-remediation groundwater monitoring. Performed at a natural gas compressor station facility in New York. Hydrogen Release Compound (HRC) injected to induce reducing conditions in the local aquifer and promote in-situ biochemical remediation of chlorinated solvents.

Assessment, monitoring, and in-situ remediation of groundwater at a natural gas compressor station in central Kentucky. Delineation horizontal/vertical extent of contamination, monitored long-term, and remediated chlorinated solvents using in-situ injection of chemicals use of ambient down-gradient reducing conditions. Long-term post-remediation groundwater monitoring was also performed.

Remedial construction oversight. Performed in association with the excavation and disposal of 169 tons of PCB and petroleum hydrocarbon contaminated soils. Area was backfilled and restored.

Hydrogeological evaluation of several industrial and solid waste landfills. Used new and previously collected geological data to support several industrial and solid waste landfill expansions along the Mississippi coast, including public-hearing support.

Landfill monitoring system design/installation/testing, solid waste landfill. Project involved design of an effective groundwater monitoring system to satisfy permit requirements and RCRA Subtitle D requirements.

LITIGATION-RELATED/EXPERT WITNESS WORK

Reports

2022

- U.S. District Court, Northern District of AL, Case 2:18-CV-1693-RDP (supplemental report, Winther v. U.S. Steel, et al.)
- Chancery Court, Jackson Co. MS, Case 3OCH1:21-cv-01737-DNH 9 (Grace, et al. v. Big Yella, et al.)
- Circuit Court, Baldwin Co. AL, Case CV-2020-900699 (Vaughn, et al. v. Smith, et al.)
- Armed Services Board of Contract Appeals, Case ASBCA No. 628162021 (expert and rebuttal reports, HGL v. USACE)

2021

- Circuit Court, Mobile Co. AL, Case 02-CV-2018-902210.00 and 02-CV-2017-901263.00 (expert and rebuttal reports, SWDA, et al. v. WMMBECCI, et al.)
- Circuit Court, Shelby Co. AL, Case CV-2021-900353 (Welch v. City of Chelsea, et al.)
- District Court, Te Awamutu, New Zealand, Case CIV-2020-072-76 (*Will Say* statement, Atkinson v. Waipa District Council)
- U.S. District Court, Northern District of MS, Case 3:19cv213-NBB-RP (Seale v. MDOT, et al.)
- Chancery Court, Jackson Co. MS, Case 2019-2010 MAM (expert and rebuttal reports, Guice v. Borries)
- Circuit Court, Marengo Co. AL, Case CV-09060 (Allen, et al. v. CEMEX, et al.)
- Circuit Court, Mobile Co. AL, Case 02-CV-2020-901477.00 (expert and rebuttal reports, Carpenter v. Crown Pointe HOA, et al.)
- 19th Judicial District Court, East Baton Rouge Parish LA, Case 684270 SEC. C (Raby v. Fakouri, et al.)

2020

- U.S. District Court, Middle District of LA, Case 18-CV-457 9 (Case involving a collision between the dredge Big Bear and the tugboat Trey Paul)
- U.S. District Court, Northern District of AL, Case 5:15-CV-01750-AKK (West Morgan-East Lawrence Water and Sewer Authority, et al. vs. 3M Company, et al.)
- 14th Judicial District Court, Calcasieu Parish LA, Case 2017-3 (Central Crude v. Liberty Mutual Insurance Company, et al.)

2019

- 3rd Judicial District Court, Union Parish LA, Case 05-CV-2017-900126[SPT] (Terral v. Union Parish School Board, et al.)
- 113th Judicial District Court, Harris Co. TX, Case 2018-49435 (Burke v. Devetski)
- Circuit Court, Baldwin Co. AL, Case 05-CV-2017-900126[SPT] (Blair v. City of Orange Beach, et al.)
- U.S. District Court, Northern District of AL, Case 2:18-CV-1693-RDP (Winther v. U.S. Steel, et al.)
- Circuit Court, Mobile Co. AL, Case 02-CV-2016-901970.00 (Southern Pearl Oyster Farm, et al. v. 4H Construction Corporation, et al.)

2018

- U.S. District Court, Northern District of IL, Case 1:16-CV-09006 (Murawski v. Reid, et al.)
- U.S. District Court, Western District of TN, Case 2:17-CV-02228 (Allstate Insurance, et al. v. Peyton, et al.)

2017

- U.S. District Court, Southern District of MS, Case 1:17CV130 LG-RHW (Gulf Restoration Network v. Oscar Renda Contracting)
- Circuit Court, Baldwin Co. AL, Case CV2017-900424 (Henderson v. Coleman)
- Circuit Court, Marquette Co. MI, Case 16-54981-CZ (Republic Township, et al. v. Perry)

2016

- Circuit Court, Carroll Co. IN, Case 08C01-1402-CT-2 (Smith v. Walsh Construction, et al.)
- U.S. District Court, Southern District of MS, Case 1:15-CV-185 LG-RHW (Weiss Residential Realty, et al. v. EMS, et al.)

2015

- ICDR/AAA Arbitration, Case 50 20 1200 0450 (expert and rebuttal reports, Ergon-West Virginia v. Shell Oil Products)

2010

- U.S. District Court, Southern District of AL, Case 1:09-CV-00187-CG-M (Gulf Coast Asphalt Company v. Chevron)

2006

- Circuit Court, Lincoln Co. MS, Case CI2006-0064-LT (McCullough v. Denbury Onshore)

2003

- Circuit Court, Marion Co. MS, (Jacobs, et al. v. Plantation Pipeline Company)

1999

- U.S. District Court, Southern District of MS, Case 5:98CV63brsf (Pennzoil Exploration and Production Company v. C. Pat Ramsay and Delta Logging and Company)

1998

- Circuit Court, Hinds Co. MS, Case 25CI1:96-CV-00511-WLK (Smith, et al. v. Chevron)

1994

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

Depositions

2023

- Circuit Court, Shelby Co. AL, Case CV-2021-900353 (Welch v. City of Chelsea, et al.)
- Chancery Court, Jackson Co. MS, Case 2019-2010 MAM (Guice v. Borries)

2022

- U.S. District Court, Northern District of AL, Case 2:18-CV-1693-RDP (second deposition, Winther v. U.S. Steel, et al.)
- Circuit Court, Baldwin Co. AL, Case CV-2020-900699 (Vaughn, et al. v. Smith, et al.)
- Armed Services Board of Contract Appeals, Case 628162021 (HGL v. USACE)

2021

- U.S. District Court, Northern District of MS, Case 3:19cv213-NBB-RP (Seale v. MDOT, et al.)
- Circuit Court, Mobile Co. AL, Cases 02-CV-2018-902210.00 and 02-CV-2017-901263.00 (two depositions SWDA, et al. v. WMMBECCI, et al.)
- Circuit Court, Mobile Co. AL, Case 02-CV-2020-901477.00 (two depositions, Carpenter v. Crown Pointe HOA, et al.)
- 19th Judicial District Court, East Baton Rouge Parish LA, Case 684270 SEC. C (Raby v. Fakouri, et al.)

2019

- U.S. District Court, Northern District of AL, Case 2:18-CV-1693-RDP (Winther v. U.S. Steel, et al.)
- Circuit Court, Mobile Co. AL, Case 02-CV-2016-901970.00 (Southern Pearl Oyster Farm, et al. v. 4H Construction Corporation, et al.)
- Circuit Court, Mobile Co. AL, Case CV-2017-901296 (Handico v. Barry's U-Pull-It Auto Parts)

2018

- U.S. District Court, Southern District of MS, Case 1:17CV130 LG-RHW (Gulf Restoration Network v. Oscar Renda Contracting)

2009

- Circuit Court, Mobile Co. AL, Case CV-08-901850 (Kendrick v. Roberts Brothers)

2006

- Circuit Court, Lincoln Co. MS, Case CI2006-0064-LT (McCullough v. Denbury Onshore)

2003

- Circuit Court, Marion Co. MS, (Jacobs, et al. v. Plantation Pipeline Company)

1999

- U.S. District Court, Southern District of MS, Case 5:98CV63brs*f* (Pennzoil Exploration and Production Company v. Ramsay, et al.)

1994

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

Trial/Hearing/Arbitration Testimony

2022

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

2021

- Trial testimony, Circuit Court, Mobile Co. AL, Case 02-CV-2018-902210.00 (SWDA, et al. v. WMMBECCI, et al.)

2015

- Arbitration testimony ICDR/AAA Arbitration, Case 50 20 1200 0450 (Ergon-West Virginia v. Shell Oil Products)

2009

- Trial testimony, Circuit Court, Mobile Co. AL, Case CV-08-901850 (Kendrick v. Roberts Brothers)

2003

- Trial testimony, Circuit Court, Marion Co. MS, (Jacobs, et al. v. Plantation Pipeline Company)

1992

- Hearing testimony, Circuit Court, Lowndes Co. MS, (Weathers, et al. v. Tennessee Gas Pipeline)

TEACHING, STUDENT MENTORSHIP (University of South Alabama)

Courses and Seminars Taught

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

Student Researchers Mentored

- 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
- 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

RECENT TRAINING/CONTINUING EDUCATION

2023

- U.S. Environmental Protection Agency:
 - Public Webinar on the Proposed PFAS National Primary Drinking Water Regulations webinar
- Virginia Department of Environmental Quality:
 - Stormwater Management: Managing Runoff training course
 - Stormwater BMPs: Wet Ponds training course
 - Erosion and Sediment Controls: Managing Erosion training course
 - Erosion and Sediment Controls for Construction Sites: Onsite Management Structures/Pollution Prevention Components training course
 - Erosion and Sediment Controls for Construction Sites: The Science of Erosion training course
 - Erosion and Sediment Controls for Construction Sites: Rules, Strategies and Structures training course
 - Erosion and Sediment Controls for Construction Sites: Pollution Prevention and SWPPP Inspections training course
- Eurofins/Test America:
 - PFAS Basics webinar
 - PFAS Sample Collection: State of the Science webinar
 - PFAS Navigating Analytical Method Options webinar
 - UCMR-5 (5th Unregulated Contaminant Monitoring Rule) - A Primer webinar
- Pace Analytical Services:
 - A Deep Dive into the 3rd Draft of Method 1633 for PFAS webinar

2022

- Solid Waste Association of North America (SWANA):
 - Landfill Gas Basics course
 - Landfill Operations Basics course
- University of Alabama/UA SafeState:
 - AHERA Asbestos Management Planner training/certification
 - AHERA Asbestos Inspector training/certification
- Eurofins/Test America:

- PFAS Basics: An Introduction to the Chemistry, Sources, Regulation and Analysis webinar

2021

- University of New Hampshire/UNH Stormwater Center: Stormwater Management Certificate
 - Stormwater Hydrology course
 - Stormwater Modeling course
 - Stormwater Site Design course
 - Stormwater Construction: Erosion and Sediment Controls course
 - Treatment System Design & Post Construction Performance Estimates course
- Eurofins/Test America:
 - PFAS Basics webinar
 - PFAS Sample Collection: State of the Science webinar
 - PFAS Navigating Analytical Method Options webinar
 - PFAS in Source and Ambient Air webinar
 - PFAS Forensic Tools, TOF, TOP Assay and Non-Target Analysis webinar
 - Quality Assurance (for Laboratory/Sampling) webinar
- StormwaterONE:
 - Urban Hydrology and Green Stormwater Infrastructure webinar

2020

- Interstate Technology and Regulatory Council:
 - Emerging Contaminants: PFAS classroom training

2018

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

PUBLISHED ABSTRACTS

Connors, J., 2022. Using PFAS analyses to trace landfill leachate releases. Geological Society of America Annual Meeting 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 Annual Southeastern Section Meeting Abstracts with Program, 53, 2

Connors, J., Connors, J. L., Engle, R. A., and Jackson, J. L., 2017. Prediction of hydrocarbon surface seepage potential using infiltrometer data. American Geophysical Union Fall Meeting, New Orleans LA, 12 December 2017

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 Southeastern Section Abstracts with Program, 46, 3

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

Connors, J., 2011. Use of readily available on-campus subsurface data to teach geological concepts and skills. Geological Society of America South-Central Section Meeting Abstracts with Program, 43, 3

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

Connors, J., and McCullough, K., 2010. Baseline data collection for a restoration design at a coastal river property. Geological Society of America Abstracts with Program, 42, 5

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

Connors, J., and Warner, D., 2010. Use of long-term monitoring data sets to characterize storm surge impacts on shallow groundwater. Geological Society of America Southeastern Section Meeting Abstracts with Program, 42, 1

Connors, J., Crumpton, C., and Hall, C., 2010. Use of shallow sediment grain-size analysis data to aid in future land development and stormwater management practices. Geological Society of America Southeastern Section Meeting Abstracts with Program, 42, 1

Connors, J., 2009. Storm-surge induced water-quality changes in an unconfined coastal aquifer system. Geological Society of America Southeastern Section Meeting Abstracts with Program, 41, 1

Connors, J., 2008. Fate and transport of inorganic nitrogen along groundwater flow paths in a coastal aquifer system. Geological Society of America Southeastern Section Meeting Abstracts with Program, 40, 6

PROFESSIONAL CONFERENCE SESSIONS CO-CHAIR

Connors, J., Mitchell, M., and Pouncy, M., 2023. Research and Practice: per- and polyfluoroalkyl substances (PFAS) contamination in the environment (accepted for the technical program/accepting proposed abstracts). GSA Connects 2023 - The Geological Society of America annual meeting, Pittsburgh PA, October 15-18, 2023

Connors, J., Fernandez, E., Rogers, S., and Singh, K. K., 2021. UAS applications in the geosciences. *Geological Society of America 70th Annual Southeastern Section Meeting*, Auburn AL, April 2, 2021 (Geological Society of America Geological Society of America Annual Southeastern Section Meeting Abstracts with Program. v. 53, no. 2)

Beckingham, B. A., Callahan T. J., Connors, J., DeVoe, R., and Vulava, V. M., 2019. Applications of hydrology and biogeochemistry to stormwater management. *68th Annual Meeting of the Geological Society of America Southeastern Section*, Charleston SC, March 28, 2019

(Geological Society of America Southeastern Section Meeting Abstracts with Program, v. 51, no. 3, p. 24)

INVITED PRESENTATIONS

PFAS in landfill leachate: research and practice. *27th Annual Joint Engineering Societies Conference*, Lafayette LA, February 23, 2023

Hydrological uniformitarianism. *Mobile Rock and Gem Society meeting*, Mobile AL, June 12, 2018

Lead contamination in our water supply. *Gulf Region Health Outreach Program Emerging Scholars Health Sciences Academy Workshop*, Mobile AL, March 24, 2017

Emerging environmental contaminants: New threats, new approaches, new practices. *Gulf Region Health Outreach Program Emerging Scholars Health Sciences Academy Workshop*, Mobile AL, March 21, 2016

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, December 2, 2014

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 Section of the Alabama Geological Society*, Mobile AL, January 15, 2008

International education and research collaboration in the U.S. *2nd International Conference on Advances in Electrical Engineering*, Dhaka Bangladesh, December 19, 2013

Geological resources, reserves, and valuations along the northern Gulf Coast. *Understanding the Financial Advantages of Land Conservation, Advanced Seminar on Conservation Easements*, Mobile AL, August 22, 2013

Bridging the gap between sponsored programs and principal investigators. *Society of Research Administrators, Alabama Chapter Annual Meeting*, Daphne AL, August 23, 2013

Research into storm-surge remobilization of subsurface contamination. *Fuzhou University Zhicheng College*, Fuzhou China, March 11, 2013

Quantifying environmental impacts of the Deepwater Horizon oil spill. *Nurses & Environmental Health: Health Consequences of the Gulf Oil Spill Conference*, Mobile AL, November 19, 2010

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*, October 11, 2010

Oil and gas in the Gulf of Mexico - A primer. *Gulf of Mexico Alliance Governors' Action Plan II (All Hands) Meeting*, Biloxi MS, August 3, 2010

Designing effective construction sediment and erosion plans. *Weeks Bay Reserve Nonpoint Source Pollution and Stormwater Workshop*, Fairhope AL, July 19, 2006

The geology of erosion. *Soils, Stormwater, and Watershed Protection: Tools for Managing Erosion Workshop*, Mobile AL, December 7, 2006

Welcome to the Ice Age - Geological evidence for climate change over time. *1st Southeastern Coastal and Atmospheric Processes Symposium*, Mobile AL, March 31, 2007

Geological constraints on stormwater runoff in the Mobile Bay area. *NOAA Community Leader Stormwater Training Workshop for Coastal Alabama*, Mobile AL, December 15, 2005

Nitrate fate and transport in groundwater, Weeks Bay, Alabama. *Weeks Bay Reserve Research Symposium: 20-year Designation Anniversary*, Fairhope AL, April 22, 2005

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

Groundwater contamination assessment. Mississippi Environment 1990, Jackson MS, March 22, 1990

SERVICE ACTIVITIES

Professional

Geological Society of America:

Member-at-Large, national *Membership and Fellowships Committee*, 2023-26

Member-at-Large, national *Professional Development Committee*, 2020-23 (chair, 2022-23)

Mentor, *John Mann Applied Hydrogeology Mentorship Program*, 68th Annual Meeting of the Geological Society of America Southeastern Section. Charleston, South Carolina, 2019

Judge, *Edward K. Aldag, Jr. Business Plan Competition*, Alabama Entrepreneurship Institute, University of Alabama, 2018

Member, *University of Alabama Department of Geological Sciences Advisory Board*, 2017-19

Judge, *Hydrology Section, Outstanding Student Paper Awards*, American Geophysical Union Fall Meeting, 2017

Member, *Southwest Alabama Geological Society*, 2009-11 (President, 2009-11)

Community

Judge, *Conrad Foundation Spirit of Innovation Challenge*, 2016-17

Judge, *Australian Conrad Spirit of Innovation Challenge*, 2017-18

Member, *Board of Directors, Mobile (Alabama) Symphony Orchestra*, 2014-16

Member, *Three Mile Creek Restoration Plan Advisory Board*, 2013-14

Member, *Weeks Bay Foundation Habitat Restoration and Management Advisory Board*, 2010-11

Advisor, (Alabama) *Governor's Coastal Recovery Commission Higher Education Subcommittee*, 2010

Science Advisor, *NASA Develop Program*, 2009-11

Instructor, *Twenty-first Century Community Learning School Summer Science Camp*, 2007

Instructor, *World Wildlife Fund Allianz Southeast Climate Camp*, 2008

Instructor, *Cub Scouts Geology Belt Loop Award*, 2007-15

Member, *Smart Coast Board of Directors*, 2007-11 (Secretary, 2009-11)

Director, *Mobile Regional Science and Engineering Fair*, 2005-14

Member, *Mobile County Public School System Science Textbook Committee*, 2005-06

Academic (University of South Alabama, unless otherwise noted)

Member, *Council of Academic Deans*, 2015-16

Member, *University Academic Success and Retention Committee*, 2015-16

Member, *Global Engagement Committee - Research Subcommittee* (chair), 2014-15

Member, *University Committee on Undergraduate Research*, 2014-15

Member, *School of Continuing Education & Special Programs Curriculum Development Committee*, (chair), 2012-13

- Member, *School of Continuing Education & Special Programs Grant Development/Research Committee*, (chair), 2012-13
- Member, *School of Continuing Education & Special Programs Strategic Planning Committee*, (chair), 2012-13
- Member, *University of South Alabama National Alumni Association Board of Directors*, 2011-16
- Faculty Advisor, *Society of American Military Engineers Student Chapter*, 2011-12
- Member, *University Sustainability Committee*, 2011-12
- Member, *University Environmental and Safety Committee*, 2010-13
- Member, *Environmental Toxicology Graduate Program Advisory Board*, 2010-12
- Member, *Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) Reaccreditation Leadership Team*, 2010-11
- Member, *Commencement Speaker Advisory Committee*, 2010-12
- Member, *University Budget Council*, 2010-12
- Member, *Council on International Education and Scholarship* (chair), 2013
- Member, *University Athletics Council*, 2010-11
- Member, *University Committee on Electronic Learning*, 2010-11
- Member, *Advisory Committee on Diversity*, 2009-12
- Member, *Academic Affairs Policy Committee*, 2009-12 (chair, 2010-11)
- Member, *University Long-range Planning Committee*, 2009-12
- Faculty Advisor, *Student Sustainability Council*, 2008-12
- Member, *Conflict of Commitment and Financial Interest Committee*, 2008-12 (chair, 2012)
- Member, *College of Arts and Sciences Faculty Awards Committee*, 2008-10
- Member, *Department of Earth Sciences Field Trip Safety Committee*, (chair), 2006-10
- Member, *Department of Earth Sciences Geology Program Assessment Committee* (chair), 2007-12
- Member, *College of Arts and Sciences Scholarship Committee*, 2005-06
- Search Committees:
- *Associate Dean, College of Education* (chair), University of South Alabama, 2013
 - *Instructor, English as a Second Language* (chair), University of South Alabama, 2013
 - *Director, International Education Programs* (chair), University of South Alabama, 2013
 - *Associate Dean, College of Art and Sciences*, University of South Alabama, 2011
 - *Assistant Dean, College of Art and Sciences*, University of South Alabama, 2011
 - *Dean, School of Continuing Education*, University of South Alabama, 2010
 - *Dean, College of Arts and Sciences*, University of South Alabama, 2009
 - *Chairperson, Department of Earth Sciences*, University of South Alabama, 2006

MEDIA APPEARANCES

Television

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

“East meets West, a report on Huawei Corporation”, by Madeleine Hackett, WTVY News, July 28, 2015 (<http://www.wtv.com/home/headlines/East-Meets-West-Pt-2-319091641.html>)

“International agreement between the University of South Alabama and the International University of Business, Agriculture, and Technology of Bangladesh”, ATN BANGLA, December 18, 2013

“Reality check: Cancer cluster study”, Fox 10 News, November 11, 2013

Live interview on the Deepwater Horizon blowout, WKRG News 5, April 30, 2010

Print/Online

“Why a grocery chain is pulling water bottled 25 miles from the East Palestine derailment”, by Sanya Mansoor, Time.com, February 27, 2023 (<https://time.com/6258825/giant-eagle-water-east-palestine-ohio/>)

“SoZo encourages innovative disruptions at leadership meeting”, by Ebony Davis, The Dothan Eagle, September 9, 2015

“South Alabama expanding offerings at Gulf Shores campus”, by John Mullen, Gulf Coast News Today, July 24, 2015

“International University of Business, Agriculture, and Technology in Bangladesh and the University of South Alabama in educational exchange agreements”, by Zakir Hossain, BARTA 24, December 18, 2013

“Water worries building in Baldwin County”, by Ben Raines, Mobile Press-Register, October 23, 2011

“USA scientists want to set up real-time air monitoring system for Mobile and Baldwin Counties”, by Russ Henderson, Mobile Press-Register, July 3, 2010

“Weeks Bay harmful blooms”, by Ryan Dezember, Mobile Press-Register, February 17, 2008

Radio

Live interview on the Birmingham, Alabama earthquake, FM Talk 106.5 Morning Show, September 14, 2011

Live interview on the Great Japanese Earthquake, FM Talk 106.5 Morning Show, March 11, 2011

Live interview on the Gulf Shores, Alabama earthquake, FM Talk 106.5 Morning Show, February 21, 2011

Live interview on methane in the water column during the BP Deepwater Horizon oil spill, FM Talk 106.5 Morning Show, July 20, 2010

Interview on the Deepwater Horizon oil spill; its potential solution and impacts, Mobile Matters Radio Program, WHIL, June 26, 2010

end