



# 2017 | EXPERT WITNESS DIRECTORY

Providence Engineering and Environmental Group LLC  
1201 Main Street, Baton Rouge, LA 70802

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[www.providenceeng.com](http://www.providenceeng.com)



**Karen Holden, PE**  
**CEO**

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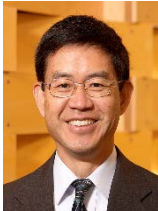
Karen Holden has more than 25 years of engineering and environmental experience. Ms. Holden's areas of expertise include project management, environmental permitting and compliance, transportation planning, and preparation of documents in accordance with the National Environmental Policy Act (NEPA). She has significant environmental/regulatory experience regarding oil and gas production, petroleum refining, chemical manufacturing, and electrical power generation. She also has construction and operation experience for oil and gas production operations.

**Professional Engineer:**

LA License No. 26824

MS License No. 17556

GA License No. 37687



**Yousheng Zeng, PhD, PE**  
**CEO – Providence Photonics, LLC**  
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Yousheng Zeng, PhD, PE serves as CEO of Providence Photonics, which pioneers technology and research related to advanced leak detection at industrial facilities. He has developed multiple groundbreaking air monitoring and data management products, is the sole or co-inventor on six registered patents, and has published 10 peer-reviewed research papers in national and international journals. He has presented research at numerous industrial technology conferences and served on several state and national workgroups and committees including: The Louisiana AERMOD Modeling Workgroup, HRVOC Workgroup, Operating Permit Workgroup, The US EPA Science Advisory Board Scientific and Technological Achievement Award Committee, and The Clean Air Scientific Advisory Committee's Ambient Air Monitoring and Methods Subcommittee.

**Professional Engineer:**

LA License No. 27053

NC License No. 20784



## Mike Purdom, PG Principal

[mikepurdom@providenceeng.com](mailto:mikepurdom@providenceeng.com)

Mike Purdom has more than 20 years of experience in environmental consulting and project management. His expertise includes subsurface geological characterizations, environmental due diligence projects (Phase I and II ESAs), risk-based corrective action projects, groundwater investigations and modeling, injection well permitting, solid and hazardous waste permitting, and EPA Brownfields projects. He has extensive experience in soil and groundwater sampling and groundwater monitor well installation. Mr. Purdom's experience also includes investigations along natural gas pipelines, at chemical plants, refineries, superfund sites, power generating facilities, and pulp and paper factories.

### Professional Geologist:

LA License No. 53

MS License No. 817

TX License No. 252



**Kevin Calhoun, PE**  
**Environmental Services Director**  
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Kevin Calhoun has 20 years of multi-media environmental experience with primary focus on air quality. Mr. Calhoun has led numerous environmental compliance and due diligence audits for both major and minor source facilities. Some due diligence audits conducted were associated with the purchase of existing facilities for oil and gas and petrochemical clients. Mr. Calhoun has represented clients in compliance inspections by both the LDEQ and EPA. His experience further includes a particular emphasis on air quality issues with extensive experience assisting clients in permitting and enforcement actions before state and federal agencies. Mr. Calhoun has also provided litigation support for numerous clients.

**Professional Engineer:**

LA License No. 28790



**Melanie Hanks**  
**Site Evaluation and Remediation**  
**Services Director**

[melaniehanks@providenceeng.com](mailto:melaniehanks@providenceeng.com)

Melanie Hanks has more than 25 years in the environmental field with extensive experience performing risk-based site assessments and remedial actions under various state and federal legislation, including LDEQ's Risk Evaluation/Corrective Action Program (RECAP) and Voluntary Remediation Program (VRP). Ms. Hanks has completed and managed Phase I and II ESAs, Investigation Work Plans, Quality Assurance Project Plans (QAPPs), Health and Safety Plans, RECAP Reports, Corrective Action Plans, Remedial Investigation Reports, Remedial Action Plans and other cleanup planning activities, and closures of underground storage tanks (UST) and hazardous and solid waste units for numerous sites. Ms. Hanks has also provided expert witness testimony and litigation support.



**Aimee Killeen**  
**Water Quality Services Director**  
[aimeekilleen@providenceeng.com](mailto:aimeekilleen@providenceeng.com)

Aimee Killeen has more than 17 years of experience in water resources regulation and policy with expertise in environmental permitting and regulatory compliance. Projects have included water quality modeling, water quality standards and assessment, regulatory oversight, grant applications, and regulation development. She has been involved in several project areas: environmental assessments; NPDES and state water permitting, negotiations and compliance; storm water plan development, implementation, training, and inspections; §319 grant applications; municipal separate storm sewer system permitting and compliance; use attainability analysis development; concentrated animal feeding operations; sewage sludge and biosolids disposal and permitting; and water quality modeling and implementation.



**Paul Clifton**  
**Natural Resources & Coastal Services**  
**Director**

[paulclifton@providenceeng.com](mailto:paulclifton@providenceeng.com)

Paul Clifton has more than 25 years of multidisciplinary experience in project management and wetlands/ecological compliance services including wetland delineations, U.S. Army Corps of Engineers (USACE) Section 10/404 and Louisiana Department of Natural Resources Coastal Use permitting, habitat value assessments, interpretation of state and federal wetland regulatory requirements, liaison assistance with state/federal resource and regulatory agencies, Section 7 Endangered Species Act consultations, and management of ecological studies/environmental investigations. He has also managed a number of complex projects specific to the energy sector for natural gas, crude, and product pipelines. Mr. Clifton has served as an expert witness for wetlands and USACE permitting issues.





**Mindi Faubion, PE**  
**Managing Engineer – Air Quality**  
[mindifaubion@providenceeng.com](mailto:mindifaubion@providenceeng.com)

Mindi Faubion's air quality work includes regulatory permitting, Prevention of Significant Deterioration (PSD) and Nonattainment New Source Review (NNSR) permitting, AERMOD modeling for significance impact determinations and NAAQS compliance analysis, compliance plan development, monitoring plan development, regulatory analysis and interpretation, emissions estimation, and Emission Reduction Credit (ERC) research and validation for NNSR applications and general air compliance support in LA and TX. Mrs. Faubion has served in numerous industries including organic and inorganic chemicals manufacturing, oil/gas production, compression, transportation, wood products manufacturing, and electric power generating.

**Professional Engineer:**

LA License No. 40314



**Randy Grice, PG**  
**Groundwater Services Director**  
[randygrice@providenceeng.com](mailto:randygrice@providenceeng.com)

Randy Grice has more than eight years of experience in the petroleum exploration and environmental consulting industries. His work experience involves all phases of the consulting industry including operations and maintenance, traditional and low-flow groundwater monitoring, activities associated with soil and groundwater assessments, remediation systems implementation, and project management.

**Professional Geologist:**

LA License No. 472

TX License No. 1690



**Gary Leonards, PE**  
**Engineering Services Director**  
[garyleonards@providenceeng.com](mailto:garyleonards@providenceeng.com)

Gary Leonards has more than 19 years of experience in civil engineering, including work in the environmental, infrastructure, and coastal engineering arenas. His background includes design, studies, regulatory permitting, engineering oversight, field investigations, risk-based evaluations, and closure planning for waste disposal facilities. Infrastructure improvement project experience includes roadways, drainage systems, levees, water treatment facilities, sanitary sewer systems, pump stations, force mains, landfills, surface impoundments, oxidation ponds, solid and hazardous waste containment systems, municipal and commercial drainage studies, storm water runoff evaluations, storm water conveyance design, and design of erosion/runoff control measures.

**Professional Engineer:**

LA License No. 30568

MS License No. 26086



**Rajiv Patel, PE**  
**Senior Managing Engineer – Texas**  
[rajivpatel@providenceeng.com](mailto:rajivpatel@providenceeng.com)

Rajiv Patel has more than 16 years of engineering and environmental experience providing multi-media environmental services to a variety of industry sectors. His principal responsibilities relate to the assessment of air quality and multi-media compliance issues including: air emissions inventories, air permitting and Title V work, environmental assessments, environmental auditing, and database management. He has performed work for both government facilities and private facilities including military installations, chemical plants, food manufacturing plants, and petroleum refineries.

**Professional Engineer:**

TX License No. 91936



**Gary Daves**  
**Technical Services Director – Air Quality**  
garydaves@providenceeng.com

Gary Daves has worked with clients and clients' legal counsels on numerous compliance audits, Title V compliance certifications, and deviation reports through the years. Additionally, he has assisted clients in complying with numerous National Emissions Standards for Hazardous Air Pollutants (NESHAP) and New Source Performance Standards (NSPS.) Work has included applicability determinations; assistance with startup, shutdown, and malfunction plans (SSMP); and compiling and reviewing compliance manuals.



**James Red**  
**Senior Air Quality Modeler**  
[jamesred@providenceeng.com](mailto:jamesred@providenceeng.com)

James Red has experience in all facets of air quality modeling, including EPA's ISC, AERMOD, AERSCREEN, and SCREEN3 models. He has an extensive background in application of photochemical grid models, such as CAMx, and in the meteorological model MM5. Mr. Red has extensive knowledge of state and federal air quality rules and regulations, including TCEQ permitting, AP-42 emission calculations, and the Texas State Implementation Plan (SIP). Further, he has substantial experience in presenting technical material, providing technical training (modeling), writing technical papers, and providing expert testimony. His key expertise includes air quality modeling, AP-42 emission calculations, state and federal air quality rules and regulations, expert testimony and technical writing.