



Tyler Gray, Secretary Louisiana Department of Energy and Natural Resources. Tyler Gray has previously served as president and general counsel to Louisiana Mid-Continent's Oil and Gas Association, an attorney to the Department of Natural Resources, Office of Conservation and for the City of New Orleans. He received his B.A. in Economics from James Madison University in Virginia, a J.D. from Loyola University in New Orleans, a M.B.A. with a specialization in Economics from Louisiana State University, and is licensed to practice law in Louisiana.

## **M. Jason Lanclos, P.E.**

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(225) 975-8837 · [Jason.Lanclos@la.gov](mailto:Jason.Lanclos@la.gov)

### **WORK EXPERIENCE**

**Louisiana Department of Energy and Natural Resources (LDENR), Office of the Secretary** – Baton Rouge, Louisiana

*Director of the State Energy Office and Technology Assessment Division, November, 2018 – present*

- Lead for LDENR on Hydrogen and Carbon Capture Utilization and Storage
- Leading policy initiative with Public Service Commission and Governor's office on Grid Modernization and Resiliency
- LDENR representative on Governor's Climate Task Force
- Co-chair of LDENR pore space working group for CCUS
- National Association of State Energy Officials Executive Board Member
- Oversees staff working to provide information on and support emerging energy technologies
- Leads efforts to actively pursue grants and federal funding for energy efficiencies
- Supervises grant funding administered through a grant program to municipalities and various entities
- Involved with training programs on energy efficiency, Clean Fuels Programs for cleaner and more efficient fleets of vehicles and pursuing and encouraging investments and development in alternative energy strategies
- Leads State Energy Office involvement with outreach and engagement with schools and universities on clean energy education
- Provides policy advice and represents state of Louisiana on matters related to LDENR and state energy initiatives, including:
  - Carbon Capture, Utilization and Sequestration (CCUS)
  - Expanding availability and use of low-carbon hydrogen
  - Developing wind energy industry in Louisiana's offshore and near-shore areas
  - Developing Louisiana's commercial solar policy
  - Working as a member of the Louisiana Climate Initiatives Task Force to create the Louisiana Climate Plan, with a goal of reaching net-zero carbon emissions by 2050

**Louisiana Coastal Protection and Restoration Authority, Office of the Governor** – Baton Rouge, Louisiana

*Deputy Executive Director and Engineering Manager October 2011 to August 2018*

- Helped to oversee the planning, engineering and implementation of some the largest ecosystem restoration and storm protection projects in the southern United States
- Involved in day-to-day operations of the Agency, financial management and development of long-term strategies
  - Annual spending on coastal programs and project implementation at CPRA was \$300 to \$800 million per year during tenure

**URS Corporation (now AECOM)** – Baton Rouge, LA

*Senior engineer/project/program manager* – May 1999 to October 2011

- Worked in the petrochemical refining sector as an environmental engineer and project manager
- Served as a client, program and project manager for various oil and gas and energy clients throughout the United States
  - Helped design and manage some of the most complex remediation and construction projects in Louisiana, most notably the ConocoPhillips Bayou Verdin Calcasieu Estuary remediation

**EDUCATION**

Louisiana State University, Baton Rouge, LA  
Bachelor of Science in Civil and Environmental Engineering, May 1999

**AFFILIATIONS**

Member of Carbon Capture Coalition, Executive Board Member for the National Association of State Energy Officials (NASEO), designated to lead the three-state HALO hub effort with U.S. DOE on hydrogen development

# Edward L. O'Brien, III

**Address:** 617 N. 3<sup>rd</sup> St, Baton Rouge, LA 70804

**Phone:** 225-342-8573

**Email:** Edward.obrien@la.gov

## EDUCATION

- ◆ Master of Business Administration: Finance | Louisiana State University | 2013
- ◆ Master of Economics: Financial Economics | Trinity College | 2003
- ◆ Bachelors of Arts: International Economics, Minor: History | University of Richmond | 1996

## PROFESSIONAL EXPERIENCE

### Senior Economist/Energy Information Manager

#### State Energy Office

##### Louisiana Department of Natural Resources, Baton Rouge, LA | April 2013 – Present

- ◆ Recruited to lead the economics team within the department in order to present oil and natural gas economic information to the Secretary and Governor offices. Manage projects assigned to the Department with regards to energy.

### Senior Economist/Project Manager

#### GEC, Inc., Baton Rouge, LA | March 2010 – March 2012

- ◆ Crafted and submitted bids for RFPs, and managed the team when the bids were won. Led the process improvement team, consulting with businesses that needed more streamlining in their process and procedures

### Economic Advisor

#### Haisley Millar Consulting, Houston, TX | November 2008 – March 2010

- ◆ Responsible for all economic impact studies associated with ongoing projects. Primarily responsible for economic consulting for oil and gas and biotech sector projects

### Lead Economist

#### Schlumberger, Houston, TX | August 2005 – March 2008

- ◆ Hired as a research economist for global fiscal terms for oil and gas, and was promoted to lead economist. Managed a group that created and implemented over 120 financial models which reflected current oil and gas legislation around the world

### Economist

#### Economic and Policy Resources, Inc., Williston, VT | November 2003 – 2005

- ◆ Performed econometric modeling, input/output analysis, and economic and demographic modeling

### Adjunct Professor of Economics

#### Asnuntuck Community College, Enfield, CT | August 2002 – July 2003

- ◆ Designed courses to meet learning outcomes, and promoted students' active participation in their own learning

- ◆ Registered Representative | Teletech Holdings, Inc. | December 1999 – September 2001

- ◆ Assistant Language Teacher | JET Program, Myoko, Niigata, Japan | July 1996 – July 1999

# LAKESHA HART

☎ 225.219.2923 | ✉ lakesha.hart@la.gov

Engineer with over 19 years of project management experience in both the public and private-sector. Demonstrated achievement in public administration, inter-agency coordination, research and policy formulation, program development and project implementation. Strong leadership and interpersonal skills.

## EDUCATION

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University of Louisiana at Lafayette	B.S. Chemical Engineering	May 2003
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## RELEVANT EXPERIENCE

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<b>August 2022-Present</b>	<b>Louisiana Office of Planning and Budget</b>	<b>Baton Rouge, LA</b>
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**State Planning Manager**

- Administer, direct, and coordinate a portfolio of state planning and policy initiatives.
- Assist the State Planning and Budget Director in determining goals and strategies. Work with Division of Administration executives and administrators to develop and implement cooperative planning, budget, federal review, and program evaluation systems.
- Coordinate with management and administrative officials of state and federal agencies to promote and manage joint programs and activities.
- Develop statewide policy recommendations. Oversee the application of planning practices in a variety of situations involving state and/or federal resources.
- Establish guidelines for interpretation of data, formulation of research and project protocols, and evaluation and recommendations of various alternative policies, actions, or solutions to problems. Directs preparation of reports on state policy research and analysis.
- Work with state agencies and regional and local planning authorities to facilitate planning coordination.
- Coordinate as directed with high level state officials, Governor's office staff, legislators and legislative staff, federal government officials, local government officials, members of special commissions and task forces, members of citizens groups, private sector business groups, and various other stakeholders on various planning activities, program implementation and reporting.

<b>August 2021 – August 2022</b>	<b>Louisiana Office of Community Development (LOCD)</b>	<b>Baton Rouge, LA</b>
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**Deputy Director (August 2021 – August 2022)**  
**Manager (December 2018 – August 2021)**

- Responsible for CDBG-DR and CDBG-MIT economic development, infrastructure and planning programs which has a project portfolio of well over \$17 billion from various HUD funding allocations
- Managed the Louisiana Watershed Initiative (LWI) which is funded, in part, by a \$1.2 billion CDBG-MIT allocation from HUD. The LWI coordinates funding, data and resources among five state agencies to reduce flood risk through a watershed-based approach which respects the natural function of Louisiana watersheds
- Managed implementation of state watershed plan, regional watershed plan, statewide data and modeling program, nature-based solutions program and various flood reduction project programs under the Louisiana Watershed Initiative as well as FEMA Public Assistance Match Program, the Hazard Mitigation Grant Global Match Program and the Louisiana Watershed Initiative Local and Regional Round 1 Program
- Managed the development of program policies and procedures and assist in the development of the State's Action Plans and Action Plan amendments as needed
- Monitored for compliance and applicability the contracts between the State and units of local government (municipalities and Police Juries) as well as cooperative endeavor agreements with other state entities and organizations utilizing disaster recovery funds
- Represent LOCD as needed at public events, trainings, meetings with federal, state and local officials and other community members as needed

- Assisted in the development of internal training, processes and procedures to facilitate more effective and efficient program implementation
- Provided technical assistance to program sub-recipients as needed in the form of webinars as well as one-on-one trainings

**September 2017 – December 2018** **FEMA** **Baton Rouge, LA**  
**Community Planning Capacity Building Specialist | National Disaster Recovery Framework (NDRF)**

- Provided technical assistance to the communities throughout Louisiana as they completed long-term disaster recovery plans following the Great Flood of 2016
- Assisted communities with limited local capacity with recovery project development and connected them with federal, state, and local partners who were able to aid in the execution of the long-term recovery projects and plans
- Acted as technical advisor for the infrastructure subcommittee for the City of Baker steering committee and assisted them in developing projects to be included in their long-term recovery plan
- Assisted local communities with identifying resources for implementing and funding long term recovery projects
- Assisted the Parish of East Baton Rouge with aligning their recovery structure with the federal National Disaster Recovery Framework which involved organizing recovery objectives, priorities and planning across all parish government agencies as well as businesses, non-profits and other community lifelines

**September 2015 – August 2017** **AECOM** **Baton Rouge, LA**  
**Environmental Specialist 3 | Industrial Water & Wastewater Services Division**

- Developed wastewater permit applications, construction Stormwater Pollution Prevention Plans (SWPPP) and Spill Prevention, Control and Countermeasure (SPCC) Plan for major and minor industrial, public and private sector clients throughout Louisiana and Mississippi

**June 2012 – August 2015** **LA Department of Environmental Quality** **Baton Rouge, LA**  
**Environmental Chemical Specialists 3 | Water Permitting Division**

- Used modeling software to develop water quality models for waterbodies throughout the state of Louisiana.
- Worked with urban planning development on review of technical documentation of new development and/or upgrade of existing development in conjunction with the US Army Corp of Engineers and the Louisiana Department of Natural Resources
- Reviewed plans and specifications for proposed water treatment systems, evaluated design and process data for existing water treatment systems to determine effectiveness in treatment
- Evaluated water treatment systems to support or modify effluent guidelines and assisted in developing new effluent guidelines for facilities

**July 2003 – June 2012** **Halliburton Energy Services** **Lafayette, LA**  
**Technical Professional | Various Product Service Lines**

- Acted as field engineer on Gulf of Mexico oil rigs for oil and natural gas drilling and production jobs
- Acted as field engineer in the Gulf of Mexico region in Completions, Test Tools, TCP, Service Tools and Sub-Sea Safety Systems Product Service Lines
- Customer account representative in TT/TCP business development department. Duties included meeting with customers to determine what solutions Halliburton could provide that would best meet their specific needs, producing customer-specific job designs and cost estimates, ordering equipment, scheduling job equipment and personnel with operations and ensuring that the jobs were completed successfully

## **TECHNICAL SKILLS**

Microsoft Office - Word, Excel, PowerPoint, Access, Outlook, Visio, Publisher, Projects

Video Conferencing Software - Zoom, GoToMeeting, Microsoft Teams

Geographic Information Systems - ArcGIS, ArcGIS Online

## **L. BENNY RUSSO, JR. (Ben)**

**3861 Rue Left Bank • Alexandria, LA 71303 • Lbennyrusso@gmail.com • (318) 613-3142**

### **SUMMARY OF QUALIFICATIONS**

An extremely versatile originator/business developer, as well as managing and developing multi-million dollar industrial and renewable development projects. Results oriented with proven leadership, problem solving, and relationship skills. Strong emphasis on setting corporate or business unit strategy. Able to pursue opportunities and investments to execute the strategy. Very customer focused. Able to manage the broad range of corporate disciplines associated with organizations and large projects. Excellent presentation and communication skills particularly in large settings. Able to adeptly organize and facilitate teams and teamwork across multiple corporate disciplines.

### **KEY AREAS OF EXPERTISE**

- Business Development
- Governmental Affairs
- Customer Retention
- High Stakes Negotiation
- Contract Origination
- Renewable Development
- Strategic Planning
- Budgeting and Financial Analysis
- Corporate Strategy
- Large Project Development
- Technology Assessment
- Economic Development
- Executive Board Participation
- Key Partnership Management
- Regulatory Affairs

### **MAJOR ACCOMPLISHMENTS**

- Successfully developed and implemented Cleco's long term and short-term Business Development strategy.
- Led the successful growth and management of Cleco's wholesale business, reaching over 25% of Cleco Power's total capacity needs.
- Led origination effort and contract negotiation for an all requirements contract, with a 580-megawatt electrical cooperative. The ten (10) year contract was worth over \$1.5 billion.
- Led origination effort and contract negotiation for an all requirements contract, with a 214-megawatt electrical cooperative. The ten (10) year contract was worth over \$600 million.
- Led the origination effort and contract negotiations with every wholesale municipal organization in Louisiana.
- Led Cleco's Business Development program, resulting in a series of successful project announcements every year I managed the department.
- Built the Cleco Alternative Energy Center in partnership with the University of Louisiana.
- Developed a partnership with a large independent oil and gas exploration and production company to develop and build the only operational geothermal energy production facility from a producing oil and gas well in Louisiana.
- Evaluated numerous power project development opportunities including greenfield combustion turbine projects, brownfield coal-fired development projects, cogeneration projects, and various repowering projects with municipalities.

## PROFESSIONAL WORK EXPERIENCE

### **Central Louisiana Regional Port (2020 to Present)**

#### ***Executive Director***

- Manage a top 100 ranked Inland River Port along the Red River System
- Increased revenue last three years.
- Added to the tenant base for the port.
- Successfully, was awarded two Delta Regional Authority, three Port Priority and a MARAD grant in the last three years.

### **Rugallo LLC (2017 - 2021)**

Rugallo is an energy consulting company assisting clients in Louisiana, Mississippi, Arkansas and Texas.

#### ***President, Rugallo LLC (2017-2021)***

- Assist a \$135 billion market cap energy company in expanding their wholesale customer base throughout MISO South.
- Provide rate review and revenue analysis on a Louisiana municipal's electric utility system and make recommendations to strengthen their financial position.
- Issued a request for proposal for the sale/lease of a customer's utility system, as well as making recommendations in regard to the results.
- Advise landowners in regard to financial opportunities associated with renewable development, in addition to pros and cons associated the development.
- At the request of a Louisiana municipality, provide assistance to their largest customer in the form of providing rate and regulatory advice to strengthen the customers financial position and facility ranking within the company to insure future expansions.
- At the request to two municipalities. I assisted in the hiring process of two new general managers to manage their utility systems.

### **Cleco Corporation, Cleco Power, Cleco Marketing and Trading (1995 – 2017)**

Cleco Corporation is a utility holding company based in Pineville, Louisiana. In business since 1935, the company has approximately 1,200 employees serving approximately 286,000 customers in Louisiana.

**Cleco Power LLC** is an electric utility located and with assets exclusively in Louisiana. It houses the corporation's utility operations and assets, including 11,830 miles of distribution lines, 1,300 miles of transmission lines and 3,325 MW of power generating capacity. Cleco Marketing and Trading LLC was the natural gas and electric trading operations operated under Cleco Corporation.

#### ***Wholesale Originator, Cleco Power, LLC (2016 - 2017)***

- Lead the power origination activities for North Louisiana, Arkansas and Mississippi.
- Develop markets for wholesale opportunities outside of Cleco's traditional territories.
- Work with existing wholesale customers to ensure continued satisfaction.
- Responsible for evaluating a market's overall short term and long-term potential and how they would fit under Cleco's long term plan.
- Responsible for business development related to chemical and oil/gas related industries throughout Louisiana.
- Ensure accounting and budgeting teams have the most recent revenue projections.
- With regulatory affairs, developed rates that insured compliance as well as success in marketing.



***Manager – Business Development, Cleco Power, LLC (2012-2016)***

- Led business development, origination, and economic development activities for the corporation.
- Managed the business development team for Cleco Power, consisting of seven business developers and numerous contracted workers located throughout the state.
- Developed and managed the business development's annual and five-year budget.
- Led the successful growth and management of Cleco's wholesale business, reaching over 25% of Cleco Power's total capacity needs.
- Worked with regulatory, tax and accounting departments to update current and projected financials. As well as price
- Facilitated a cohesive plan for growing Cleco's business profitability.
- Led the development group in meeting and exceeding the overall goals for the company.
- Established and maintained relationships with international economic development sighting groups.
- Led the certified site development program for the company, as well as developing a new website to assist in economic development activities.
- Established and maintained relationships within Louisiana Economic Development and regional economic development organizations.
- With two regional economic development organizations developed the only operational mega site in Louisiana at the time.
- With the state and regional economic development organizations, grew Cleco's electrical load through successful economic development projects.
- With Cleco's regulatory department developed electrical rates designed to help and grow the electrical load.
- Lead Cleco Power's renewable energy initiative assessment, of Louisiana based technologies.
- Managed the Cleco Alternative Energy Center in partnership with the University of Louisiana to assess new technologies and to assist various economic development projects (Sundrop Fuels, Cool Planet, etc.) at the request of Louisiana Economic Development, Louisiana Department of Environmental Quality, and the Louisiana Department of Agriculture.
- Represented the Company and worked closely with local and state elected officials, economic development groups and chambers of commerce in siting economic development opportunities.

***Director – Market Development, Contracts and Regulation, Cleco Power LLC (2003 – 2012)***

- Led the wholesale power origination initiative for Cleco Power.
- Successfully executed long term all requirements contracts with the only two electric cooperatives in Louisiana to ever buy capacity and energy from anyone but La Generating/Cajun.
- Successfully executed wholesale contracts with all of the wholesale opportunities in Louisiana.
- Successfully executed Cleco's first all requirements wholesale contract located out of Louisiana.
- Led the Louisiana Public Service Commission mandated renewable energy initiative for Cleco
- Partnered with the US Army Corps of Engineers to perform a statewide assessment on potential geothermal energy applications in Louisiana.
- Developed a partnership with a large independent oil and gas exploration and production company to develop and build the only operational geothermal energy production facility from a producing oil and gas well in Louisiana.
- Secured funding thru federal, state and private sector funding to develop leading edge technology projects throughout the state.
- Built the Cleco Alternative Energy Center in partnership with the University of Louisiana.
- With the University of Louisiana, developed and built a solar thermal generating facility to accurately determine solar thermals potential in Louisiana.

- With the University of Louisiana and NorthStar Gasifiers, developed and built a fully functioning biomass gasifier to accurately assess the capabilities of various biomass feed stocks in syngas generation.
- With the University of Louisiana and Louisiana Biofuels, developed and built a biomass torrefaction unit to determine if torrefied biomass could cost effectively be used in existing coal burning plants.
- With Louisiana Tech University, worked to find alternative uses for fly ash thru the production of geopolymer concrete.
- Led the technology assessment of numerous hydropower, wind, coal/pet coke syngas, and solar projects.
- Interacted with the regional Louisiana Public Service Commissioner in regard to questions regarding technology assessments of various renewable generation opportunities.

***Director of Origination, Cleco Marketing and Trading, LLC (1999 –2002)***

- Led the wholesale power origination initiative for Cleco Marketing and Trading in SPP and SERC.
- Marketed off take contracts for unregulated generating facilities that Cleco was developing and building.
- Successfully marketed natural gas to municipalities for Cleco Energy, LLC.
- Identified available capacity within the Into-Entergy market for Cleco to purchase.
- Pursued and evaluated numerous power and gas business opportunities including asset sales, asset purchases and joint ventures with other energy companies.
- Led the Cleco's effort to ensure that Cleco Marketing and Trading had enabling contracts in place to transact capacity and energy purchases and sales.
- Successfully more than doubled Cleco Marketing and Trading's wholesale business.

***Director - Bulk Power Accounts, Cleco Marketing & Trading, LLC (1998 - 1999)***

- Responsible for account maintenance for Cleco's top 200 largest retail customers.
- Structured and prepared proposals to provide long-term energy commodity contracts and services from power generation assets.
- Led regional marketing efforts to sell power and other energy related products and services from various generating sources.
- Led the wholesale power origination initiative for North Louisiana and outside of Cleco's territory.
- Responsible for Cleco expanding its wholesale footprint outside of its traditional territory.
- Successfully increased Cleco Marketing and Trading's wholesale all requirements load with the addition of several contacts.

***Environmental Specialist, Cleco Corporation (1995 - 1998)***

- Set the overall environmental strategy for the company including developing environmental targets and benchmarks.
- Developed an environmental compliance program and instituted auditing and monitoring procedures to ensure company compliance with environmental regulations.
- Developed cost effective solutions to implement new environmental programs.
- Lead emergency response efforts on spills and cleanups of hazardous and toxic materials.
- Led the environmental assessment phase in siting new natural gas pipelines to all of our generating stations.
- Led the environmental assessment phase in regard to Cleco purchasing Cleco Energy's pipeline assets.

- Successfully negotiated a contract with a company to beneficially use Cleco's fly ash and bottom ash, thus reducing Cleco's landfill footprint.

**Formosa Plastic Corporation USA (1994 – 1995)**

Formosa Plastics Company is a Taiwanese plastics company that primarily produces polyvinyl chloride (PVC) resins and other intermediate plastic products. FPC USA operates manufacturing facilities in Delaware, Illinois, Louisiana and Texas. In 2019, Chemical & Engineering News ranked Formosa Plastics as the world's sixth largest chemical company by sales. The Baton Rouge facility is a work class chemical plant producing PVC, vinyl chloride, chlorine, caustic and hydrogen. The products and raw materials are shipped via the facilities rail and truck terminals, as well as their Mississippi River doc.

***Industrial Hygienist, Formosa Plastic Corporation USA (1994 – 1995)***

- Responsible for oversight of health, safety and security duties at the Baton Rouge and local downstream facilities.
- Conduct industrial hygiene and environmental monitoring (asbestos, personal and area monitoring for hydrocarbons, particulates, noise, ventilation, lead, stack sampling and water effluent monitoring)
- Develop and implement Health and Environmental policies and procedures.
- Evaluate, advise and facilitate an environmental cleanup after a release has occurred.
- Develop and implement annual and long-term goals.
- Interact with federal and local regulatory agencies for environmental permitting and during compliance inspections.
- Supervise shift coordinators who provides safety, environmental, security and minor medical services as needed on shift basis.
- Handle workman's compensation claims.
- Develop a comprehensive Industrial Hygiene monitoring plan insuring appropriate protection for the workers and prompt identification of environmental stressors.

**Ethyl Corporation/ Albemarle Corporation (1991-1994)**

Ethyl was founded in 1923 by General Motors and Standard Oil of New Jersey (Esso) to produce tetraethyllead (TEL) as the antiknock for the car engine (leaded gasoline). Ethyl expanded and diversified in response to the gradual decline of the market for TEL, as the automotive industry shifted to unleaded gasoline. The aluminum, plastics and energy units became Tredegar Corporation in 1989. In 1993, it spun off its life insurance company, First Colony Life, and then in 1994, the specialty chemical business was spun off as an independent, publicly traded company named Albemarle.

***Ethyl/Albemarle Corporation (1991 – 1994)***

- Responsible for supporting industrial hygiene duties at companies' facilities throughout North America, in addition to being over industrial hygiene duties for two world class facilities and a 60 square mile brine field in Magnolia, Ar.
- Oversee Process Safety Management, Risk Management and Industrial Hygiene Programs.
- Facilitating compliance with CMA's Responsible Care Program.
- Develop and implement Health and Environmental policies and procedures.
- Participated in industrial hygiene surveys, process safety audits, toller audits and other duties of a corporate hygienist.

### **COMMUNITY INVOLVEMENT**

Port Association of Louisiana  
Inland Rivers Port and Terminals  
Red River Valley Association  
Central Louisiana Economic Development Alliance  
Central Louisiana Chamber of Commerce  
North Louisiana Economic Partnership  
One Acadiana  
Baton Rouge Area Chamber  
St Tammany Economic Development Foundation  
South Louisiana Economic Council  
Louisiana Industrial Development Executive Association (LIDEA)  
Partners in Literacy  
Metropolitan Planning Organization Technical Advisory Committee  
Beltway Technical Advisory Committee  
Fort Polk Progress  
Louisiana Chemical Association

### **ADVISORY POSITIONS**

University of Louisiana's Center for Energy Efficiency and Sustainable Energy Advisor  
University of Louisiana's Energy Institute Advisor  
Louisiana Institute for Biofuels and Bioprocessing (LIPPi) Advisory Board  
University of New Orleans' Advanced Materials Research Institute Advisory Board  
Clean Power and Energy Research Consortium (CPERC) Advisor  
Louisiana Tech University Trenchless Technology Center Advisor  
Louisiana Military Advisory Council  
Advisory Council for Department of Environmental Qualities' Lead Abatement Standard.

### **EDUCATION**

University of Louisiana, Monroe - Bachelor of Science, Toxicology

# GREG RICHARDSON

212 Jackson Street Columbia La 71418 · (318) 594 1657  
gregwatermark@yahoo.com

## EXPERIENCE

1998 – PRESENT

### **PORT DIRECTOR, COLUMBIA PORT COMMISSION**

WITH OVER TWENTY-FIVE YEARS OF EXPERIENCE AS PORT DIRECTOR, GREG RICHARDSON HAS DEMONSTRATED PROFICIENCY IN BOTH ENGINEERING AND PORT MANAGEMENT. DURING HIS TENURE, THE PORT OF COLUMBIA HAS UNDERGONE SUBSTANTIAL GROWTH, EXPANDING FROM 10 TO 400 ACRES, TRANSFORMING INTO A MULTIMODAL INDUSTRIAL COMPLEX. GREG'S STRATEGIC PROWESS IS EVIDENT IN HIS ABILITY TO SECURE FUNDING FOR THE PORT'S DEVELOPMENT, TOTALING \$38 MILLION FROM STATE AND FEDERAL SOURCES IN THE PAST 24 MONTHS. NOTABLY, HIS SUCCESSFUL ACQUISITION OF A \$10.5 MILLION FY2023 RAISE GRANT UNDERSCORES HIS COMMITMENT TO REGIONAL ECONOMIC DEVELOPMENT.

AS A SEASONED NAVIGATOR OF PORT MANAGEMENT CHALLENGES AND OPPORTUNITIES, GREG RICHARDSON LEVERAGES HIS ENGINEERING BACKGROUND AND EXPERTISE IN ECONOMIC DEVELOPMENT TO CHAMPION INNOVATIVE SOLUTIONS. HIS FOCUS ON INNOVATIVE SOLUTIONS PROMOTES GROWTH, JOB CREATION, AND SUSTAINABILITY, POSITIONING THE PORT OF COLUMBIA AS A VITAL CONTRIBUTOR TO THE REGIONAL ECONOMY. GREG'S LEADERSHIP EXEMPLIFIES A STEADFAST COMMITMENT TO ADVANCING THE PORT'S CAPABILITIES WHILE ENSURING ECONOMIC VITALITY AND ENVIRONMENTAL RESILIENCE. THROUGH HIS EFFORTS, THE PORT OF COLUMBIA CONTINUES TO EVOLVE AS A MODEL OF EFFICIENCY AND EFFECTIVENESS.

1996 – 2000

### **OWNER, INDEPENDENT ENVIRONMENTAL CONSULTANTS, INC.**

COLUMBIA, LA

1989 – 1996

### **OWNER, PROFESSIONAL TECHNICAL SUPPORT SERVICES, INC.**

BATON ROUGE, LA

1985 – 1989

### **PROJECT ENGINEER, GOLDR ASSOCIATES, INC.**

Atlanta, Ga

## EDUCATION

DECEMBER 1985

### **B.S. AGRICULTURAL ENGINEERING, LOUISIANA STATE UNIVERSITY**



## **GARY LAGRANGE PORT ADVISOR**

Gary LaGrange served as President and Chief Executive Officer of the Port of New Orleans 2001-2017. Under LaGrange's direction the Port made great expansions in spite of great adversity. LaGrange's leadership brought the Port of New Orleans back into operation two weeks after Hurricane Katrina, the most extensive natural disaster in U.S. history. During his tenure, the Port opened state-of-the art container, cruise and refrigerated terminals. With over \$1 Billion invested in port expansion and enhancement, the Port of New Orleans is now recognized as the #1 Port for operations and logistics in America.

In December of 2016, Gary P. LaGrange and Associates, LLC was created. Gary P. LaGrange and Associates, LLC has served and represented both public and private entities over the past five years, including most recently the Ports of W, Virginia on the Ohio River and Columbia Louisiana as well as the Port of Plaquemines on the Mississippi River and Tangipahoa on Lake Pontchartrain.

LaGrange served on the Boards and Executive Committees of the Waterways Council, Inc., and National Waterways Conference where he is a past Chairman. He also served on the Board of the Gulf Ports Association of the Americas, New Orleans Metropolitan Convention and Visitors Bureau, Maritime Transportation System National Advisory Committee, New Orleans Chamber of Commerce and World Trade Center. He also served on the Executive Committee of the Transportation Research Board of the U.S. Maritime Administration.

As a past Chairman, Mr. LaGrange also served as a member of the American Association of Port Authorities Board of Directors. He is also past Chairman and past President of the Gulf Intracoastal Canal Association and Founding President of the Ports Association of Louisiana.

LaGrange also served on the Committee of 100 Louisiana. He served on the Federal Reserve Bank of Atlanta's Advisory Council on Trade and Transportation, and the U.S. Department of Transportation Maritime Administration's Port Subcommittee.

He was named the Maritime Person of the Year by the Propeller Club of New Orleans and Maritime Person of the Year by the Propeller Club of the Port of Gulfport. He was named the "Man of Steel" by the American Institute for International Steel (AIIS), and received the Sanchez to Sanchez to Smith Man of the Year Award by the Hispanic Chamber of Commerce.

Gary is also a member of the National Rivers Hall of Fame in Dubuque, Iowa and named to the Hall of Fame by the International Maritime Association at the United Nations in New York.

LaGrange was also the recipient of the Transportation & Infrastructure Summit Excellence in Maritime Transportation Award and the C. Alvin Bertel Award in recognition for outstanding contributions to the advancement of the Greater New Orleans port area. Mr. LaGrange also received the International Achievement Award from LeCentre Internationale.

He was also recognized by the University of Southern Mississippi for his support of the Center for Logistics, Trade and Transportation and is a Young Leadership Council Role Model Award winner.

Mr. LaGrange was also named Logistics Executive of the Year by National Industrial Transportation League. He is the first Port Director ever to receive this prestigious award. Mr. LaGrange is also the recipient of the Iconic Eugene Schrieber Award and the prestigious City Business Icon Award.

Before taking leadership at the Port of New Orleans, LaGrange also served as the Executive Director/CEO of the Mississippi State Port Authority in Gulfport, Ms., the Port of South Louisiana and the Port of West St. Mary and the Ports Association of Louisiana in a career covering over 45 years.

LaGrange attended Louisiana State University. He received his B.A. in Geography/Economics from the University of Louisiana at Lafayette. He also completed a Master of Arts in Urban Planning, with honors from UL, in addition to having earned the Professional Port Manager Certification (PPM) from the American Association of Port Authorities.

# Laura Hartt

## Port Accountant

### LAURA S. HARTT, MBA, CPA

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#### BIOGRAPHY:

Laura and her [Exemption 6: PII](#), have a thriving public accounting practice in the Monroe/West Monroe/Ruston communities and surrounding areas. Prior to public practice, Laura served as the CFO for the City of Ruston, and Parish Treasurer for Lincoln Parish.

#### PROFESSIONAL EXPERIENCE:

##### **PARTNER, DAVID M. HARTT, CPA**

**1/1/20-CURRENT**

- Supervise governmental audit, compilation, and review engagements.
- Provide consulting and management to various governmental agencies.
- Prepare corporate and individual income tax returns.

##### **CFO, CITY OF RUSTON, LOUISIANA**

**9/1/17 – 4/1/20**

- Oversee all aspects of accounting and financial management of the city government.
- Managed multiple departments including utility billing and collection and Section 8.
- Responsible for grants management and audit compliance.
- Oversaw multiple sales tax elections and creation of multiple economic development districts.

##### **PARISH TREASURER, LINCOLN PARISH POLICE JURY 11/30/15 – 8/31/2017**

- Manage accounting function for a budget of \$18M in public funds including 40+ individual funds that span all governmental fund types. Supervise the purchasing and accounting staff.
- Prepare millage renewal documents and work closely with bonding attorney to facilitate millage renewal election.
- Implement changes in legislation that affect the audit and reporting requirements of the Parish.
- Create oral and written presentations to present monthly to the Police Jury.



**Judicial Administrator**, 4<sup>th</sup> District Court, Monroe, LA 4/1/14 – 3/1/15 ■ Manage court operations for two parishes and 11 judges and staff. Supervise 70 employees across six departments and multiple locations.

- Supervise the purchasing and accounting functions for the Court.
- Plan and direct special projects interfacing with Ouachita Parish Sheriff's Office, Ouachita Parish Clerk of Court, and Ouachita Parish District Attorney's Office.
- Responsible for maintaining the budgets for seven governmental funds and outside funding through the Ouachita Parish Policy Jury.

**Deputy Court Administrator**, 4<sup>th</sup> District Court, Monroe, LA 6/7/10 – 3/31/14

- Prepare monthly general ledger accounting including month end close for 7 funds. Oversee annual budget of \$5 million in public funds. Research and apply all applicable federal and state regulations over public funds.
- Manage the Human Resources function for a staff of 70+ employees including all aspects of performance reviews and payroll processing. Research and apply FMLA, ADA and other labor laws as the need arises

**Sr. Reimbursement Analyst**, St. Francis Medical Center, Monroe, LA 2005 – 2007

- Prepare Medicare and Medicaid cost report.
- Oversee fiscal intermediary audits of Medicare Cost Reports. Prepare appeals for cost report audit findings resulting in reversal of most adverse findings.
- Prepare monthly contractual allowances to reconcile patient account balances to general ledger balances directly impacting net patient service revenue.

**Staff Auditor**, Cameron, Hines, & Hartt, CPAs, West Monroe, LA 2003 – 2005

- Perform audits of governmental, non-profit, and for-profit clients. Prepare financial statements.
- Recommend preventative controls and more efficient accounting processes based on audit findings. Present and discuss audit findings with management and/or board of directors.
- Research current events shaping the accounting practice through various industry publications. Completed 40 hrs. of continuing education each year of employment.

**Staff Accountant**, Lester, Miller, & Wells, CPAs, Alexandria, LA 2001 – 2003

- Perform audits of governmental and non-profit healthcare entities.
- Recommend improvements to accounting processes based on audit findings.
- Prepare Medicare and Medicaid cost reports.
- Prepare financial statements for internal and external use.

**EDUCATION:** Doctor of Business Administration

Major: Finance, Minor: Quantitative Analysis and Economics  
Fall 2007 – Spring 2010  
Louisiana Tech University – Ruston, LA  
(Completed all doctoral level coursework only.)

Masters of Business Administration, Graduated December 2008  
Louisiana at Monroe – Monroe, LA

University of

Bachelor of Science, Finance, Graduated May 2001  
Louisiana Tech University – Ruston, LA

Brandon Frey serves as the Louisiana Public Service Commission's Executive Secretary, a position he has held since December 2017. He has been employed with the Commission since April 1999, beginning as a staff attorney. Early on, Brandon's primary area of practice was telecommunications, but he also handled matters in all other areas of Commission jurisdiction. From 2012 through 2018, Brandon served as the Commission's Executive Counsel, acting as lead counsel on appellate matters, and advising the Commissioners and the Commission's Executive Secretary on legal matters affecting the Commission, as well as representing the Commission in matters before federal and state agencies. As Executive Secretary, Brandon heads the Commission's Staff, interacts with the Commissioners, regulated industry, the general public and governmental agencies. Prior to working for the Commission, Brandon received a BA in 1994 and a JD in 1997, both from Louisiana State University, and served as Judicial Clerk for the 26<sup>th</sup> Judicial District Court, Parishes of Bossier and Webster.

### **Career Profile**

*Licensed Louisiana Professional Engineer and a PMI certified Project Management Professional with over 20 years of experience. Skilled at fostering a positive work environment, leading multi-disciplinary teams, managing and executing all aspects of large scale civil works, coastal restoration, hurricane protection, and coastal & environmental projects in and around the New Orleans Metropolitan area from project conception through construction completion.*

- Highly skilled in leading and managing the seamless coordination of all aspects of multi-million dollar civil works and port related projects to include hydraulic, hydrologic, surveying, civil, structural, mechanical, coastal and environmental engineering studies and designs pertaining to hurricane protection, flood control, navigation, coastal restoration, and other water resource development activities.
- Expert in bridging the communication gap between technical and non-technical minded people to ensure the successful dissemination of information to all stakeholders.
- Diverse experience in the leadership, program and project management, construction management, contract administration, planning, design, execution and operation of major projects.
- In-depth knowledge of supervision, leadership and management concepts and methods, practices and principles of engineering, economics, environmental and physical science disciplines.
- Effectively manages project milestones and budgets through planning, design, and construction.
- Expert in initiating, developing, and directing tasks performed by staff.
- Monitors project progress and milestones, measuring performance and taking necessary corrective actions to maintain schedule and budget.
- Able to adjust to changing priorities, mitigate risks, make decisions, and build consensus to accomplish the mission of the organization.
- Skilled in building relationships, forming consensus, and maintaining communication with high level representatives of Federal, state, and local agencies, private engineering firms, local interest groups and the public.
- Expert resource for conducting media interviews and making public presentations to explain sensitive, complicated, and/or technical information in layman's terms.
- Guest speaker at local, national, and international conferences to present the challenges and lessons learned in the Program and Project management, design, construction, operation and turn-over of large civil works and water resources projects in the post Katrina environment of New Orleans.

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### **Career Highlights**

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- Successfully managed the planning, engineering, design, construction, oversight, and closeout of over \$3.0 billion of Civil Works and Capital Improvement projects that provided critical hurricane and storm damage risk reduction the New Orleans metropolitan area.
- Served as the spokesperson/presenter for over 100 public meetings, Parish Council meetings, Homeowner's associations meetings, Coastal Zone Committee meetings, Planning Commission meetings, etc. following hurricane Katrina which resulted in the wide range acceptance and buy-in of the local political leaders and residents.
- Deployed to the Puerto Rico immediately following Hurricane Maria to lead an emergency response team. I was responsible for all aspects of the emergency response debris mission to include: management of the \$35 million debris removal contract, staffing of the emergency response team, logistics, and deployments to the hurricane-stricken area.
- Guest speaker and participant in several international peer reviews of storm surge barriers in the Netherlands which identified opportunities to improve the functionality and reliability of the flood defense systems.

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## Professional Experience

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Port of New Orleans

**Director of Engineering and Environmental**

**01/2021 – Present**

- Currently leads the Port's Engineering and Environmental departments
- Leads the Project Delivery Team responsible for the planning, design, and ultimately the construction of the proposed Louisiana International Terminal (LIT). The LIT is planned to be a new container terminal with a 2.0 million TEU capacity and an estimated construction cost ranging from \$1.5B to \$2.0B.
- Directly responsible for the Port's planning and engineering efforts, construction management, program management, permitting, and sustainability efforts.
- Responsible for the overall development and execution of the Port's Capital Improvement Plan
- Mentor and supervise engineering and environmental staff consisting of 9 engineers, 2 construction inspectors, 2 environmental & sustainability professionals, and 1 contract manager.

US Army Corps of Engineers, Protection and Restoration Office, New Orleans, LA

**Senior Project Manager**

**06/2006 – 01/2021**

- Currently serves as the lead project manager for the \$760 million West Shore Lake Pontchartrain hurricane and storm damage risk reduction system (HSDRRS) project. This project includes the planning, design, construction, and oversight of approximately 18 miles of levee, one mile of floodwalls, 4 pump stations, numerous drainage structures, floodgates crossing highways and railroads and the relocation of approximately 35 utilities.
- Responsible for the overall management and execution of approximately 30 HSDRRS construction contracts. The construction value of these projects was approximately at \$3.0 billion and consisted of the construction of nearly 50 miles of hurricane protection feature to include; approximately 30 miles of flood wall, 20 miles of earthen levees, dozens of floodgates, four sector gates/navigation structures, numerous highway and railroad gates, three vertical lift gates, a swing bridge, pump station repairs, a pump station safe house and the Lake Borgne storm surge barrier.
- Extensive experience in managing Congressional authorization and appropriation program level budgets, manpower resources, leading multiple teams of government and contract personnel, and supervision of government staff.
- Integral member of the team that developed of the operation and maintenance (O&M) manual; Water Control Manual; and Standing Instructions for the HSDRRS projects to ensure successful O&M of the projects.
- Experience with Federal contracting laws through awarding numerous design/professional services and construction contracts using a wide variety of contract mechanisms such as ID/IQ, design-bid-build, design-build, ECI (CMAR), 8A, Hubzone, etc.
- Negotiates and integrates all project delivery team functions (i.e., planning, hydraulic, hydrologic, civil, structural, mechanical, cost, environmental, construction, real estate, contracting, operations, etc.), sponsor/customer needs and other agencies' commitments into a comprehensive management plan for numerous projects.
- Represents the Corps of Engineers on an international team (I-Storm Network) of storm surge barrier managers to provide guidance and expertise on the planning, design, acquisition, construction, operation and maintenance of large movable storm surge barriers around the world.
- Serves as the New Orleans District's Action Officer for the Debris team and other critical roles during natural disaster response efforts to lead the debris mission following hurricanes.
- Served as the spokesperson/presenter for over 100 public meetings, Parish Council meetings, Homeowner's associations meetings, Coastal Zone Committee meetings, Planning Commission meetings, etc. Post Katrina

- Acted as the Commander's principle assistant in coordinating and planning the day-to-day operations for Task Force Guardian (TFG) by staying situational aware of the status of 58 contracts totaling \$428 million in St. Bernard, Plaquemines, and Orleans Parishes.
- Advised the Commander on community and political impacts to decisions regarding TFG operations.
- Provided briefings and interviews to interested parties that included Congressional Delegates, Corps of Engineers Headquarters staff, the Assistant Secretary of the Army, various media outlets, and local interest groups.
- Responsible for the overall management, coordination and execution of TFG projects (i.e., planning, hydraulic, hydrologic, civil, structural, mechanical, cost, environmental, construction, real estate, contracting, operations, etc.).
- Provided leadership and guidance to eight (8) TFG Project Managers.
- Reviewed project progress, measured performance and suggested corrective actions to maintain schedule as well as budget.
- Represented the TFG Commander, as an alternate point of contact with Federal, state and local government agencies, and other external organizations.

- Responsible for the management and execution of all phases of numerous Water Resources and Civil Works projects (i.e., planning, hydraulic, hydrologic, civil, structural, cost, environmental, construction, real estate, contracting, operations, etc.).
- Lead project delivery team to implement internal decisions, provided guidance, and interpreted laws, regulations and policies for the implementation of project and study efforts.
- Assessed sponsor needs, directed study and project activities, reviewed manpower needs, developed work plans, and established deadlines to ensure efficient project execution.
- Managed and allocated funds for project activities, identified milestones, and monitored progress.
- Developed comprehensive management plans that integrate schedules, budgets, dependencies and responsibilities of all project delivery team members to integrate sponsor/customer requirements.
- Developed a process for expediting beneficial use of dredge material for marsh creation projects. This process was used as the foundation for the development and implementation for the Near Term Beneficial Use Program for the Louisiana Coastal Area (LCA) Ecosystem Restoration Study and resulted in marsh creation project approval time being cut in half.

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### **Academic Background**

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Bachelor of Science in Civil/Environmental Engineering, University of New Orleans, LA  
Risk Management Decision Making, Graduate Program, Notre Dame of Maryland University

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### **Licenses and Certifications**

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Registered Professional Engineer in the State of Louisiana (License No. 35970)  
Project Management Professional (PMP No. 1812685)

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### **Other Information**

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#### **Awards**

In 2012, awarded the Army Engineer Association's Bronze de Fluery medal. The de Fluery medal is one of the highest honors awarded to civilian staff members in the Corps of Engineers.



## EMILY FEDERER

MSPH, ENV SP

### OBJECTIVE

I strive to protect communities' and employees' environmental health and safety through training, policy, investigation, mitigation and public awareness, while continuously learning and improving my skills sets.

### SKILLS & ABILITIES

Interpreting and implementing regulatory requirements

Delegating and reviewing diverse projects to multiple consultants

Writing and securing grants, and administering grant funded projects

Administering environmental aspects of complex projects

Organized, reliable and trustworthy leader

### CONTACT

T: 504.710.3128

E: emilyafederer@gmail.com

### EDUCATION

**TULANE UNIVERSITY SCHOOL OF PUBLIC HEALTH & TROPICAL MEDICINE, NEW ORLEANS, LA, 2008-2010**

*MSPH, Global Environmental Health Sciences, Water Resource Management*

**UNIVERSITY OF WISCONSIN - PARKSIDE, KENOSHA, WI, 2002-2007**

*BS, Biology; Minors in Chemistry and Environmental Studies*

### ENVIRONMENTAL PLANNING, HEALTH & SCIENCES EXPERIENCE

**THE PORT OF NEW ORLEANS, NEW ORLEANS, LA**

**SUSTAINABILITY MANAGER; JUNE 2022 - PRESENT**

- Provide direction and oversee Port Environmental, Planning and Permitting
- Developed a permit process and tracking database alongside the Port Permit manager and Salesforce Lightning consultant team
- Lead sustainability programming including Green Marine certification and working to implement Envision guidelines for Port infrastructure projects
- Oversee environmental compliance, mitigation and NEPA contracts, as well as consultant contracts for special projects when required, and manage all environmental and planning consultant projects
- Review, track and manage regulatory requirements for permits and environmental incidents port-wide
- Direct brownfields programming and coordinate property reuse with Port real estate

**ENVIRONMENTAL SERVICES MANAGER; MAY 2017 - JUNE 2022**

- Manage environmental compliance and reporting for Port-operated facilities, including writing and maintaining seven SPC/SPCC spill plans, LPDES wastewater permits, stormwater MS4 permit and SWMP, EPA Vessel General Permits, and other air quality, water quality and storage requirements
- Secured more than \$3 million of competitive federal and state grants for air quality and Brownfields redevelopment programs, and leveraged more than \$3 million in non-federal match funds from outside sources
- Review plans and specifications for port and tenant construction projects and oversee projects' environmental compliance
- Work with Federal, State and Local agencies to coordinate significant projects
- Provide training and oversight for environmental aspects of Port operations, including facilities maintenance, vessel operations, bridges, and STS cranes
- Review environmental compliance for 50-60 port industrial and maritime tenants and provide guidance for companies to improve BMPs

**ENVIRONMENTAL SCIENTIST; DECEMBER 2014 - MAY 2017**

- Reviewed regulations to write and implement Federal SPCC and State SPC to write seven spill plans for Port facilities and developed annual training
- Inspected Port and tenant properties and managed corrective action oversight
- Assisted to plan and host several meetings and presentations
- Wrote procedures to complete an ISO 14001 compliant EMS

**JEFFERSON PARISH DEPARTMENT OF ENVIRONMENTAL AFFAIRS, JEFFERSON, LA**

**ENVIRONMENTAL TECHNICIAN II; JANUARY 2013 - DECEMBER 2014**

- Monitored wastewater compliance at permitted industries in Jefferson Parish
- Created public outreach materials and activities for 2013 National Geographic/ National Parks BioBlitz event at Jean Lafitte Park
- Served as the Clean Air Coalition representative for the metropolitan planning area (MPA) for compliance with lowered EPA NAAQS air quality standards

## EMILY FEDERER

MSPH, ENV SP

### PROFESSIONAL

### MEMBERSHIPS & CERTIFICATIONS

American Association of Port Authorities (AAPA) Environment Committee Member

Women in Maritime Operations (WIMOs) Member

Envision Sustainability Professional (ENV SP) Certified by the Institute for Sustainable Infrastructure

Louisiana Department of Health and Hospitals (DHH) Certified Operator in Water and Wastewater classifications

### TULANE UNIVERSITY SPHTM, NEW ORLEANS, LA

RESEARCH ASSISTANT; JANUARY - MAY 2010

- Examined Standard Methods to determine proper laboratory and field procedures for biological and chemical analysis
- Performed tests for the presence of coliforms and *E. coli* in ambient water to assess feasibility of discharging treated wastewater into wetlands with the goal of reducing impacts of coastal erosion and saltwater intrusion

LABORATORY TEACHING ASSISTANT; JANUARY 2009 - MAY 2009

- Prepared and presented environmental microbiology lectures for weekly laboratory exercises for detection of bacteria in water, air, soil and food
- Assessed methods and materials needed for exercises and ordered supplies

RESEARCH ASSISTANT; SEPTEMBER 2008 - DECEMBER 2008

- Experimentally attempted to synthesize isothiocyanates with various amino acids to create quantification standards in human samples for cancer research using HPLC instruments and ChemStation software

### CITY OF RACINE HEALTH DEPARTMENT, RACINE, WI

LABORATORY ASSISTANT; AUGUST - SEPTEMBER 2009, AUGUST 2008, AND MAY - NOVEMBER 2007

- Conducted water quality research for chemical and bacterial pollutants in field and laboratory conditions in Lake Michigan and the Root River
- Worked for three years studying algae to quantify pathogens in Chladorphora algae mats, identifying public health concerns
- Conducted EPA Pilot Beach Sanitary Surveys partnering with USGS and U.S. EPA

### SIGMA-ALDRICH, SHEBOYGAN, WI

CHEMICAL PRODUCTION OPERATOR; OCTOBER 2007 - AUGUST 2008

- Completed procedures for trade-secret industrial chemical production and purification of organic chemical products through reactions under pressure and vacuum atmospheres, distillations, filtrations, utilizing ISO 9001 standards
- Employed safe handling and disposal techniques for hazardous, pyrophoric and reactive chemicals in the production laboratory setting

### EDUCATION EXPERIENCE

#### SELF-EMPLOYED, NEW ORLEANS, LA

PRIVATE TUTOR, NOVEMBER 2011 - DECEMBER 2012

- Worked with middle school through graduate level students to improve grades in statistics, geometry, algebra, biology and chemistry

#### ISADORE NEWMAN SCHOOL, NEW ORLEANS, LA

COACH & SUBSTITUTE TEACHER, SEPTEMBER 2009 - NOVEMBER 2011

- Taught children 6<sup>th</sup> through 12<sup>th</sup> grades primarily in math and science subjects, and coached cross country and track

### CULTURAL & RESOURCE MANAGEMENT EXPERIENCE

#### THE NEW ORLEANS FRUIT TREE PROJECT, NEW ORLEANS, LA

OUTREACH COORDINATOR & FOUNDING MEMBER; JANUARY 2011 - DECEMBER 2013

- Scheduled and lead volunteer staff in harvesting, planting, maintaining and surveying fruit trees and orchards
- Built a network of fruit trees, volunteers and receiving organizations
- Created media outreach tools to provide for program growth, and secure multiple sources of funding for the project

## EMILY FEDERER

MSPH, ENV SP

## COMPUTER PROFICIENCIES

ArcGIS, ESRI Trained

MS Office Suite, Proficient

Database Management

## REFERENCES

### DR. JULIE KINZELMAN

UNIVERSITY OF WISCONSIN  
PARKSIDE, KENOSHA, WI; CENTER  
FOR ENVIRONMENTAL  
STUDIES/SUSTAINABLE  
MANAGEMENT; ASSOCIATE  
LECTURER

E: [kinzelma@uwp.edu](mailto:kinzelma@uwp.edu)

P: 262.770.2889

Former professor, professional  
mentor and supervisor at the City  
of Racine Health Department,  
known for 16 years

### VICTORIA FLOWERS

ONEIDA NATION, ONEIDA, WI;  
ENVIRONMENTAL COMPLIANCE  
COORDINATOR

E: [vflowers@oneidanation.org](mailto:vflowers@oneidanation.org)

P: 920.366.6720

Professional mentor and personal  
family friend, known for 39 years

### AMELIA PELLEGRIN, AICP

CITY OF GRETNAL, LA; DIRECTOR OF  
PLANNING & CITY DEVELOPMENT

E: [apellegrin@gretnala.com](mailto:apellegrin@gretnala.com)

P: 504.363.1568

Former supervisor at the Port of  
New Orleans, known for 8 years

### HOUSING AUTHORITY OF NEW ORLEANS, NEW ORLEANS, LA

CONTRACT FIELD SURVEYOR; JANUARY 2012 – MARCH 2012

- Conducted field surveys and completed reports from site visits of available rental housing in New Orleans East and the Lower 9<sup>th</sup> Ward

### UNIVERSITY OF WISCONSIN PARKSIDE, KENOSHA, WI

WOMEN'S ISSUES DIRECTOR; SEPTEMBER 2006 – MAY 2007

- Coordinated campus events promoting student connection and raising awareness of body image, health care access, sexual assault, and SES equity
- Drafted resolutions in student senate for the Women's Issues Committee
- Attended conferences and legislative hearings to lobby for women's health, speaking with legislators about relevant political issues

## PUBLICATIONS & PRESENTATIONS

April 2023 Port of the Future Panel Speaker: **EPA Pilot Program: Community and Port Collaboration** Presenters: **Emily Federer**, Sustainability Manager, Port of New Orleans; Chris Waterson, General Manager, Waterson Terminal Services, LLC; Christina R. Billingsley, Senior Community Manager, Community Engagement, Port of Seattle - <https://portofthefutureconference.com/federer/>

2021 U.S. EPA Region 6 Stormwater Conference Presenter: **Port Perspective: Managing Oversight at Multiple Industrial Sites as Non-Regulators** Presenters: **Emily Federer**, Environmental Services Manager, Port of New Orleans; Diana Day, Project Engineer, Terracon

2020 Port Inner Harbor Economic Revitalization (PIER) Plan, resulting from EPA Brownfields Area-Wide Planning Grant, adopted by the Board of Commissioners of the Port of New Orleans in April 2020 - [www.portnola.com/assets/pdf/Port-NOLA-2020-PIER-PLAN\\_web.pdf](http://www.portnola.com/assets/pdf/Port-NOLA-2020-PIER-PLAN_web.pdf)

2019 Brownfields Resources Workshop Panelist: **Panel Discussion: Identifying Brownfield Target Areas** Moderator: Karen Peycke, TBA Coordinator, EPA Region 6; Panelists: Chad LaComb, Project Specialist/ Brownfield Program Manager, APC Jennifer Clancey, Brownfields Technical Expert, KSU TAB Partner; **Emily Federer**, Environmental Services Manager, Port of New Orleans; Rebecca Otte, Statewide Brownfields Program Coordinator, LDEQ

2018 Vanguard Conference Panelist: **Panel discussion: Where the River Meets the Road: Equitable Growth Along New Orleans' Highest Ground.** A panel discussion about development challenges facing one of the world's busiest port systems, the mighty Mississippi's impact on resilience efforts across the region, and equity concerns for historical communities along the River. Mark Davis, Director of the Bywater Institute (moderator); **Emily Federer**, Environmental Services Manager Port of New Orleans; Suzane Mobley Director of Advocacy at Colloqate Design; Bryan Lee Designer and Design Justice Advocate

Badgley, B., J. Ferguson, A. Vanden Heuvel, G. Kleinheinz, C. McDermott, T. Sandrin, J. Kinzelman, **E. Junion (Federer)**, M. Byappanahalli, R. Whitman, and M. Sadowsky. 2011. Multi-Scale Temporal and Spatial Variation in Genotypic Composition of Cladophora-borne E. coli Populations in Lake Michigan. *Water Research* 45(2):721-731.

2007-2009 Documents and compilations of data from the EPA's Pilot Beach Sanitary Survey. Additional information regarding Great Lakes water quality initiatives, Beach Sanitary Surveys and results can be seen at [www.glrc.us](http://www.glrc.us) and <https://www.epa.gov/sites/production/files/2020-06/documents/beach-sanitary-great-lakes-pilot.pdf>



# Kylie Mills

## COMMUNITY ENGAGEMENT, MARKETING & PUBLIC RELATIONS PROFESSIONAL

Strategic and target-focused professional with substantial experience leveraging relationships and leadership expertise to oversee community engagement and marketing activities, including Community Advisory Councils, social media, creative execution, public relations, and more, with a keen emphasis on improving community commitment and creating win-win solutions. Proven track record of formulating and implementing compelling community relations, public relations and marketing strategies to enhance awareness while executing successful promotion campaigns. Strong communicator with a well-developed aptitude to foster relationships with community, stakeholders, customers, colleagues, staff members, and executive management.

### WORK EXPERIENCE

#### **Communications & Community Engagement Manager** | Port of New Orleans | New Orleans, LA | 2022-Present

- Manages all community relations for the Port of New Orleans throughout Orleans, Jefferson, and St. Bernard Parish
- Supports the building and maintaining of key stakeholder relationships
- Develops and executes all strategic communications for the Louisiana International Terminal, including, but not limited to, social media, presentations, and collateral
- Assists Port of New Orleans Press Secretary with media inquiries around the Louisiana International Terminal

#### **Vice President** | The Bogle Agency | New Orleans, LA/Fort Worth, TX | 2020-2022

- Managed social, creative, and content teams to ensure synergy between internal and client needs
- Developed and executed integrated campaigns that drove awareness, press, traffic, and revenue, including public relations initiatives, social media campaigns, promotions, digital marketing, creative developments, and more
- Built and maintained relationships with clients, community stakeholders, journalists, and media partners
- Drove creative brainstorming that generated bold, innovative ideas
- Developed and managed marketing budgets, tracked spending costs, and executed promotional activities and programs within the agreed marketing budget

#### **Account Executive** | HUB Destination Marketing/Bandwagon | New Orleans, LA | 2018-2020

- Coordinated, developed, and led all media communications strategies, outreach, and pitches on every level, resulting in an annual ROI of more than \$1,000,000 per client
- Built and maintained good relationships and ties with the press and managed media contact database
- Developed and managed relationships with stakeholders to ensure successful press trips/visits and story placements
- Increased accurate and positive media coverage for all clients
- Developed content for social media platforms and managed community engagement
- Managed relationships with clients

**Account Executive** | GCG Marketing | Fort Worth, TX | 2017-2017

- Developed and maintained relationships with internal team members and clients to ensure that needs of both parties were met
- Coordinated with production teams to determine timing, budget, and overall execution of creative deliverables, including product launches
- Worked with media and marketing teams to provide strategic recommendations on client requests
- Provided clients with performance-related metrics on digital tactics
- Developed creative briefs to ensure client goals were being reflected throughout the project

**Government Affairs Coordinator & Communications Assistant** | Monsanto | Washington, DC | 2015-2017

- Supported communications efforts by drafting all presentation materials and writing, compiling, and distributing special and monthly government affairs updates
- Maintained lobbying efforts by tracking legislation and conducting political intelligence meetings
- Led community relations efforts to establish and manage relationships with different stakeholders, activists, and advocacy groups
- Managed STEM education partnership with McKinley Tech High School in Washington, DC
- Supported Monsanto's FFA advocacy partnership by working with and presenting at FFA's Annual Washington Leadership Conference
- Developed, managed, and executed logistics for company events
- Developed strategy and managed logistics for Monsanto Government Affairs' philanthropic calendar

**Scheduler & Communications Assistant** | United States House of Representatives | Washington, DC | 2014-2015

- Organized and tracked invitations, speaking engagements, travel reservations, and other requests for the Congressman
- Managed relationships with different organizations, community, and stakeholders for the Congressman
- Coordinated district travel and communications needs for the Congressman and staff
- Assisted in the development of written correspondence for constituents and press inquiries

**Deputy Scheduler** | United States Senate | Washington, DC | 2013-2014

- Maintained the Senator's daily schedule in coordination with the head Scheduler
- Assisted in the writing and distribution of all congratulatory letters
- Supported communications team in development of talking points, press releases, and any other communications needs
- Acted as a liaison and gatekeeper for the Senator with the staff, public, and other Senators

**Administrative Assistant** | eSentio Technologies | Washington, DC | 2013-2013

- Coordinated a complex schedule for the company's CEO
- Managed heavy travel arrangements for CEO, staff, and company recruits

- Developed designs and managed logistics for all company events, ranging from corporate conferences to small business dinners

**Regional Field Director** | Congressional Candidate | Corpus Christi, TX | 2012-2012

- Directed dozens of regional volunteers in performing outreach with potential voters
- Assisted with campaign strategy implementation, such as contacting voters through canvassing, phone calls, and building local events
- Managed relationships with key stakeholders and constituents to help establish trust and communication with the Congressman's team
- Assisted with the development and distribution of all media content
- Helped coordinate fundraising efforts for the campaign

**EDUCATION**

Bachelor of Science, Agricultural Communications Texas Tech University | Lubbock, TX | 2009-2012

**Richert Leland Self, CPA, MBA**  
1231 Five Oaks Drive  
Lake Charles, Louisiana 70605  
337-802-5140

## **PROFESSIONAL EXPERIENCE**

### **Executive Director – Port of Lake Charles, Lake Charles, Louisiana**

337-493-3500 (2020 – Present)

Lead all aspects of the Port of Lake Charles including finance, engineering, operations, marketing and navigation departments.

### **Deputy Executive Director – Port of Lake Charles, Lake Charles, Louisiana**

337-493-3557 (2017 – 2020)

Assist the Executive Director of the Port of Lake Charles in all aspects of leading the Port along with continuing the finance and administrative functions.

### **Director of Finance and Administration – Port of Lake Charles, Lake Charles, Louisiana**

337-493-3557 (2003 – 2017)

Preparation and presentation to the Board the annual Operating and Capital Budgets along with quarterly forecast, monthly financial submissions, and preparation of the Five-Year Long-term Forecast for inclusion in the Strategic Plan. Assist the Port Director negotiating contracts with customers and tenants, and preparation of the financial analysis including Net Present Value (NPV), Internal Rate of Return (IRR) and Return on Investment (ROI) on proposed projects. Responsibilities also include supervision of the Accounting, Purchasing, Human Resource and Information Technology Departments.

### **Corporate Accounting Manager – Global Industries, Ltd., Carlyss, Louisiana**

337-583-5012 (1999 – 2003)

Preparation of the quarterly earnings release, 10-Q, 10-K and other SEC filings. Preparation of the consolidated balance sheet, income statement, statement of cash flows and the monthly Board of Directors letter. Responsibilities also included supervision of senior and staff accountants as well as accounts payable and accounts receivable clerks.

### **Certified Public Accountant – Broussard and Company, Lake Charles, Louisiana**

337-439-6600 (1997 – 1999)

Individual and corporate tax preparation as well as auditing in such areas as Banking, Governmental, Manufacturing, Hospitals and Employee Benefit Plans.

### **Certified Public Accountant – Langley, Williams & Company, Lake Charles, Louisiana**

337-477-2827 (1994 – 1997)

Individual and corporate tax preparation as well as auditing in such areas as Banking, Governmental, Manufacturing and Employee Benefit Plans.

### **Accountant – Arthur Andersen and Company, New Orleans, Louisiana**

(1992 – 1994)

Auditing in such areas as Oil and Gas, Banking, Manufacturing, Gaming and Employee Benefit Plans.

## **EDUCATION**

### **University of New Orleans**

Master of Business Administration – 1992

### **McNeese State University**

Bachelor of Science, Business Management – 1990

## **CERTIFICATION AND PROFESSIONAL ORGANIZATIONS**

**Certified Public Accountant, Louisiana State Board of Certified Public Accountants**

**Member of Society of Louisiana Certified Public Accountants**

**Member of American Institute of Certified Public Accountants**

**Member of Government Finance Officers Association**

**Professional Port Executive (PPX®)** – 2022 – Professional Certification from the American Association of Port Authorities

**Professional Port Manager (PPM®)** – 2017 – Professional Certification from the American Association of Port Authorities

**Louisiana Board of International Commerce** – 2016 – 2019

**Gulf Seaports Marine Terminal Conference** – Currently serving as Vice Chairman

**American Association of Port Authorities** – Chairman – Finance Committee 2009 – 2011, Vice Chairman 2007 – 2009

**Leadership Louisiana – Council for A Better Louisiana (CABL)** – class of 2008

**Port Rail, Inc. Board** – (2017 – Present) Serving as a board member

**Port Resiliency Expert Committee** – (2014 – 2015) – Committee of the National Sea Grant College Program – developed the Port Resiliency Index

**NSF BIOGRAPHICAL SKETCH**

Provide the following information for the Senior personnel.  
Follow this format for each person. **DO NOT EXCEED 3 PAGES.**

**IDENTIFYING INFORMATION:**

NAME: Sunda-Meya, Anderson

ORCID: 0000-0002-6346-4326

POSITION TITLE: Dean, College of Arts &amp; Sciences

**ORGANIZATION AND LOCATION:** Xavier University of Louisiana, New Orleans, LA, US**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	DATE RECEIVED	FIELD OF STUDY
North Carolina State University, Raleigh, NC, US	PHD	05/2007	Physics
Pontifical Gregorian University, Rome, ITALY	MA	06/1993	Philosophy
Pontifical Gregorian University, Rome, ITALY	BA	06/1991	Theology
Universite de Lubumbashi, Lubumbashi, Democratic Republic of Congo	MA	06/1988	Philosophie et Lettres
Institut Saint Pierre Canisius, Kinshasa, Democratic Republic of Congo	BA	06/1984	Philosophy

**Appointments and Positions**

2022 - present	Dean, College of Arts & Sciences, Xavier University of Louisiana, New Orleans, LA, US
2019 - present	Professor, Xavier University of Louisiana, Physics and Computer Science, New Orleans, LA, US
2021 - 2022	Interim Dean, College of Arts & Sciences, Xavier University of Louisiana, New Orleans, LA, US
2020 - 2021	Acting Dean, College of Arts & Sciences, Xavier University of Louisiana, New Orleans, LA, US
2020 - 2020	Associate Dean, College of Arts & Sciences, Xavier University of Louisiana, New Orleans, LA, US
2019 - 2021	Affiliate Professor, Tulane University, Physics and Engineering Physics, New Orleans, LA, US
2013 - 2020	Director, Xavier University of Louisiana, Dual-Degree Engineering Program, New Orleans, LA, US
2013 - 2019	Head, Xavier University of Louisiana, Physics and Computer Science, New Orleans, LA, US

- 2013 - 2019 Associate Chair, Xavier University of Louisiana, Division of Mathematical & Physical Sciences, New Orleans, LA, US
- 2013 - 2019 Associate Professor, Xavier University of Louisiana, Physics and Computer Science, New Orleans, LA, US
- 2007 - 2013 Assistant Professor, Xavier University of Louisiana, Physics and Computer Science, New Orleans, LA, US

## **Products**

### **Products Most Closely Related to the Proposed Project**

1. Pleshinger D, Alnussirat S, Arias J, Bai S, Banadaki Y, Cherry M, Hoffman J, Khosravi E, Legault M, Rodriguez R, Smith D, Smith D, del Toro E, Trepanier J, Sunda-Meya A. Gamma Ray Flashes Produced by Lightning Observed at Ground Level by TETRA-II. Journal of Geophysical Research: Space Physics. 2019 November 07; 124(11):9229-9238. Available from: <https://onlinelibrary.wiley.com/doi/10.1029/2019JA026820> DOI: 10.1029/2019JA026820
2. Islam Shafiqul, Dias Jorge, Sunda-Meya Anderson. Distributed Tracking Synchronization Protocol for a Networked of Leader-follower Unmanned Aerial Vehicles with Uncertainty. IECON 2021--47th Annual Conference of the IEEE Industrial Electronics Society; 2021; c2021.
3. Islam Shafiqul, Sunda-Meya Anderson. Robust Adaptive Load Frequency Control for Multi-area Power System Grid Networks with Uncertainty. IECON 2021--47th Annual Conference of the IEEE Industrial Electronics Society; 2021; c2021.
4. Islam Shafiqul, El Saddik Abdulmotaleb, Sunda-Meya Anderson. Robust load frequency control for smart power grid over open distributed communication network with uncertainty. 2019 IEEE International Conference on Systems, Man and Cybernetics (SMC); 2019; c2019.
5. Al Khawli Toufik, Anwar Muddasar, Sunda-Meya Anderson, Islam Shafiqul. A calibration method for laser guided robotic manipulation for industrial automation. IECON 2018-44th Annual Conference of the IEEE Industrial Electronics Society; 2018; c2018.

### **Other Significant Products, Whether or Not Related to the Proposed Project**

1. Phambu N, Almarwani B, Alwadai A, Phambu EN, Faciane N, Marion C, Sunda-Meya A. Calorimetric and Spectroscopic Studies of the Effects of the Cell Penetrating Peptide Pep-1 and the Antimicrobial Peptide Combi-2 on Vesicles Mimicking Escherichia coli Membrane. Langmuir. 2017 Nov 14;33(45):12908-12915. PubMed PMID: [29039950](https://pubmed.ncbi.nlm.nih.gov/29039950/).
2. Fandio Jubgang D, Dikandé A, Sunda-Meya A. Continuous-wave stability and multipulse structures in a universal complex Ginzburg–Landau model for passively mode-locked lasers with a saturable absorber. Journal of the Optical Society of America B. 2020 August 11; 37(11):A175-. Available from: <https://opg.optica.org/abstract.cfm?URI=josab-37-11-A175> DOI: 10.1364/JOSAB.397024
3. Islam S., Ashour R., Sunda-Meya A.. Haptic and Virtual Reality Based Shared Control for MAV. IEEE Transactions on Aerospace and Electronic Systems. 2019; 55(5):2337-2346. Available from: <http://www.scopus.com/inward/record.url?eid=2-s2.0-85059477636&partnerID=MN8TOARS> DOI: 10.1109/TAES.2018.2885642
4. Islam S., Saddik A.E., Sunda-Meya A.. Robust cooperative load-frequency tracking protocols for leader-follower smart power grid networks with uncertainty. Conference Proceedings - IEEE

International Conference on Systems, Man and Cybernetics. Conference Proceedings - IEEE International Conference on Systems, Man and Cybernetics; 2019; c2019. Available from: <http://www.scopus.com/inward/record.url?eid=2-s2.0-85076722239&partnerID=MN8TOARS>  
DOI: 10.1109/SMC.2019.8914446

### **Synergistic Activities**

1. I have a distinguished track record of directing complex research projects, of working across departments and disciplines in my own scholarship, and of advocacy and support for faculty in multiple capacities, including as a department head and division associate chair, and Dean. With my persistent support to engage students and faculty, I have developed an environment for success for students. For my outstanding devotion to teaching and service, I received both the Norman C. Francis Faculty award for teaching, Norman C. Francis award for service, and I received the American Physical Society Award for Education in 2021.

### **Certification:**

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to domestic and foreign appointments and positions. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Sunda-Meya, Anderson in SciENcv on 2023-03-09 06:15:09



### Contact Information

Jonathan R. Raush  
Mechanical Engineering Department  
243 East Lewis St., Room 320  
Lafayette, LA 70503  
337-482-1807  
jraush@louisiana.edu

### Education and Training

Institution	Major	Degree	Year
University of Louisiana at Lafayette	Mechanical Engineering	B.S.	2004
University of Louisiana at Lafayette	Engineering, Mechanical	M.S.	2006
Louisiana State University and A&M College	Mechanical Engineering	Ph.D.	2016

### Professional Experience

Lee and Ken Matherne/BORSF Endowed Professor in Engineering (7/2021 – present)  
Associate Director, Institute for Materials Research and Innovation (4/2020 – present)  
Assistant Professor, Mechanical Engineering, UL Lafayette (8/2016 – present)  
President, Sustainable Energy Engineering LLC, (7/2015 – present)  
Research Scientist, Mechanical Engineering, UL Lafayette (2/2011 - 7/2016)  
Adjunct Professor, Mechanical Engineering, UL Lafayette (Fall, 2011 and Spring, 2016)  
Consulting Engineer, Engineering Design & Testing Corp. (5/2006 - 10/2010)

### Honors and Awards

Phi Kappa Phi-National Honor Society  
Pi Tau Sigma-National Honorary Mechanical Engineering Society  
Outstanding Undergraduate Research Mentor - UL Lafayette, 2021  
Early Career Researcher of the Year, UL Lafayette College of Engineering, 2021  
Emerging Leaders Alliance, TMS, 2021  
Rising Star Award - College of Engineering, UL Lafayette, 2020

### Closely Related Publications

Zeng, C.; Ghadimi, H.; Ding, H.; Nemati, S.; Garbie, A.; Raush, J.; Guo, S. Microstructure Evolution of Al6061 Alloy Made by Additive Friction Stir Deposition. *Materials* 2022, 15, 3676. <https://doi.org/10.3390/ma15103676>

Wilson, J.A., Wang, Y., Carroll, J., Raush, J., Arkenberg, G., Dogdibegovic, E., Swartz, S., Daggett, D., Singhal, S., Zhou, X.-D; “Hybrid Solid Oxide Fuel Cell/Gas Turbine Model Development for Electric Aviation”, *Energies* 2022, 15, 2885. Available: <https://doi.org/10.3390/en15082885>

Kumar, D., Deville, L., Ritter, K., Raush, J., Ferdowzi, F., Chambers, T., “Performance Evaluation of 1.1 MW Grid-Connected Solar Photovoltaic Power Plant in Louisiana”, *Energy Reports*, May 2022.

H. Ding, C. Zeng, J. Raush, K. Momeni, and S. Guo, “Developing Fused Deposition Modeling Additive Manufacturing Processing Strategies for Aluminum Alloy 7075: Sample Preparation

and Metallographic Characterization,” *Materials*, vol. 15, no. 4, p. 1340, Feb. 2022, doi: 10.3390/ma15041340.

Zeng, C., Wen, H., Bernard, B., Ding, H., Raush, J., Gradl, P., Khonsari, M., Guo, S., “Tensile Properties of Additively Manufactured C-18150 Copper Alloys” *Metals and Materials International*, May, 2021. Available: <https://doi.org/10.1007/s12540-021-01052-0>

Brambles, O., Ritter, K., Johnson, L. McBride, T., Snyder, S., Stettenheim, J., Chambers, T., Raush, J., “Field Testing of Manufacturable Advanced Low-Cost Receiver for Parabolic Trough Solar Power,” *2019 IEEE Green Technologies Conference (GreenTech)*, April, 2019, Lafayette, LA..Available: <https://ieeexplore.ieee.org/document/8767118>

Ezeanya, E., Massiha, G.H., Simon, W., Raush, J., Chambers, T., “System Advisor Model (SAM) Simulation Modelling of a Concentrating Solar Thermal Power Plant with Comparison to Actual Performance Data,” *Cogent Engineering*, Vol. 5, October, 2018. Available at: <https://doi.org/10.1080/23311916.2018.1524051>

Raush, J., Ritter, K., Prilliman, M., Hebert, M., Pan, Z., Chambers, T., “Numerical Model and Performance Validation of a Small-Scale Concentrating Solar Thermal Power Plant in Louisiana”, *Journal of Power and Energy Engineering*. 6, pp. 112-140. September, 2018. Available at: [http://file.scirp.org/Html/8-1770440\\_87674.html](http://file.scirp.org/Html/8-1770440_87674.html)

Ritter, K., Prilliman, M., Chambers, T., Raush, J., “Maintenance of a Small-Scale Parabolic Trough Concentrating Solar Power Plant in Louisiana”, *International Journal of Sustainable and Green Energy*, Vol. 6, No. 6, 2017, pp. 104-11. Available at: <http://article.sciencepublishinggroup.com/pdf/10.11648.j.ijrse.20170606.12.pdf>

Raush, J., Chambers, T., Russo, B., Crump, K., 2016, “Assessment of local solar resource measurement and predictions in south Louisiana,” *Energy, Sustainability, and Society*, Vol. 6, No. 1. Published July, 2016. Available at: <http://link.springer.com/article/10.1186/s13705-016-0083-y>

### **Synergistic Activities**

1. Active participant in the NSF EPCoR funded Louisiana Materials Design Alliance (LAMDA) encompassing five state universities including one HBCU.
2. Collaborative work with NASA Marshall Space Flight Center on development of electrostatic levitation thermophysical property measurement methods and tools.
3. Developed and executed Study Abroad courses for Mechanical Engineering students – the first such courses incorporating international experiential learning in the College of Engineering at UL Lafayette.

**Mark E. Zappi, Ph.D., P.E.**

**Education:**

**BS-Civil Engineering**, University of Louisiana (1984)

**MS-Chemical Engineering**, Mississippi State University (1991)

**PhD-Chemical Engineering**, Mississippi State University (1995)

**Employment History:**

2021 – Present: Director of the Louisiana C1 Extension Service (LC1ES)

2019 – Present: BORFS Chaired Professor of Bioprocessing, Department of Chemical Engineering, UL

2010 – Present: Executive Director of the Energy Institute of Louisiana, UL

2005 – 2019: Dean of Engineering & Chevron Professor of Chemical Engineering, UL

1997 – 2005: Director MSU Environmental Technology Research and Applications (E-TECH) Laboratory (External grant funded laboratory), Mississippi State University

1999 – 2005: Swalm Professor of Chemical Engineering, Mississippi State University

1996 - 1999: Associate Professor, Chemical Engineering Mississippi State University

1984 - 1996: Research Environmental Engineer, US Army Corps of Engineers, Engineering Research and Development Center, Vicksburg, MS

**Professional Registration:** Professional Engineer within the State of Louisiana (No. 37515)

**Professional Interests:**

1. Power production using green systems
2. Bioprocesses for the production of commercial chemicals and energy
3. Treatment of contaminated media
4. Development and commercialization of energy resources
5. GHG reduction systems and technologies

**Recent Example Publications (>250 publications, H-Index = 33, and >4,200 citations):**

-Fortela, D., Farmer, K., Zappi, A., Sharp, W., Revellame, E., Gang, D., and Zappi, M., 2019, "A Methodology for Global Sensitivity Analysis of Activated Sludge Models: Case Study with Activated Sludge Model No. 3 (ASM3)", Journal of Water Environment Research (WEF), Vol. 91, No. 9, pp. 865 – 876, doi.org/10.1002/wer.1127.

-Fortela, D. L., Crawford, M., DeLattre, A., Kowalski, S., Lissard, M., Fremin, A., Sharp, W., Revellame, E., Hernandez, R., and Zappi, M., 2020, "Using Self-Organizing Maps to Elucidate Patterns among Variables in Simulated Syngas Combustion", Clean Technologies, V2, N2, pp. 156-169, doi.org/10.3390/cleantechnol2020011.

-Arora, S., Buchireddy, P, and Zappi, M, 2021, "Farm Waste Energy Generation", Chapter within book – Waste Energy – Vol. 2 (Edited by K.R. Rao), ASME Press, New York, NY.

-Buchireddy, P., Peck, D., Zappi, M., and Bricka, R. M., 2021, "Catalytic Hot Gas Cleanup of Biomass Gasification Producer Gas via Steam Reforming Using Nickel-Supported Clay Minerals", Energies, V14, Paper No. 1875, doi.org/10.3390/en14071875.

-Fortela, D., DeLattre, A., Sharp, W., Revellame, E., and Zappi, M., 2023, "Using Self-Organizing Map Algorithm to Reveal Stabilities of Parameter Sensitivity Rankings in Microbial Kinetic Models: A Case for Microalgae", Clean Technologies, V5, pp. 38–50.

-Sosa, J., Laines, J., Garcia, D., Hernandez, R., and Zappi, M., 2023, "Activated Carbon: A Review of Residual Precursors, Synthesis Processes, Characterization Techniques, and Applications in the Improvement of Biogas", Environmental Engineering Research, 28(3): 220156.

- Peck, D., Holes, W., Zappi, M., Hernandez, R., Gang, D., and Buchireddy, P., 2023, "Novel nickel ceramic filter for hot gas cleanup of tars from syngas", Fuel Processing Technology, V244, Paper No. 107708.

- Fortela, D.L., Fremin, A., Sharp, W., Mikolajczyk, A., Revellame, E., Holmes, W., Hernandez, R., and Zappi, M., 2023, "Unsupervised Machine Learning to Detect Impending Anomalies in Testing of Fuel Economy and Emissions of Light-Duty Vehicles", Clean Technologies, 5, pp. 418–435.

**Community Outreach, Workforce Initiatives, & Technology Commercialization Activities:**

1. Founded and Directing the Nation's First Carbon Neutrality Extension Service
2. Initiated formal research and educational partnerships with three HBCUs, one Hispanic serving university, and one Native-American Nation.
3. Designed and assisted with implementation of a community college alternative energy technician education program.
4. Assisted with organizing and implementing three formal community clean technology outreach programs
5. Principal outreach engineer with the Mississippi Industrial Extension Service
6. Develop student diversity programs at both MSU and UL
7. Initiated and continues to direct a student leadership program at UL in 2006
8. Initiated a research apprentice program at UL in 2007
9. Served/serves on numerous industrial outreach technical tracks for numerous technical trade shows
10. Major Professor Role for graduate students – 12 PhD and 16 MS
11. Graduate student committee member – 42 total (MS & PhD)
12. Dean of Engineering at UL from 2005 to 2019
13. Member School to Career/Work Enhancement Task Force (Lafayette Parish School System)
14. Co-PI on the Louisiana EDA-funded (\$75M) H2 The Future Grant
15. Organizing a multi-university energy tech exchange program between Canada, Mexico, and the US
16. Program Co-Chair for the 2019 IEEE Green Power Conference, Lafayette, LA (April 2019)
17. Testimony before the Full US Senate Agricultural, Nutrition and Forestry Committee, May 6, 2004 – Hearing on the Future of Biofuels within the US. Washington DC
18. Testimony before the Louisiana Public Service Commission concerning the utilization potential of alternative energy options in Louisiana and suggested mechanisms to phase these options in – LPSC Meeting in Natchitoches, LA. May 19, 2011
19. Testimony before the Quadrennial Energy Review on Energy Infrastructure Needs for the US (Jointly hosted by the DOE and US Senate Energy Committee); New Orleans, LA; May 27, 2014
20. Co-Chair for the Science Advisory Group for the Louisiana GOV's Energy Neutrality/Climate action plan task force
21. Chairman of the Louisiana Legislative Biofuels Panel (2006 to 2013)
22. Member of the One Acadiana Infrastructure Planning Committee

**Research Funding History:** Over \$80M of External R&D Project Funds Generated.

**Large R&D Program Management Experience:** 1) US DoD SERDP Federal Integrated Bioremediation Research Consortium – A \$25M/5-year project that involved thirteen federal agencies and three universities; 2) US DoD SERDP Peroxone Oxidation Development Project – A \$4M/3-year project that involved three federal agencies and two universities; 3) US DOE EPSCoR Mississippi University Research Consortium for the Development of Biofuels – A \$8M/5-year project that involved four universities; 4) US Army Explosives Remediation Task Force – A \$15M/5-year project that involved three federal agencies; 5) NASA EPSCoR BIOSYS Development Project – A \$2.2M/3-year project that involved four academic units; and, 6) Industry Funded Biopower Assessment R&D Project – A \$6M/5-year project that involved three academic units and four contractors.

**Patents Awarded:** 7 granted and 5 pending

## Ouloide Yannick Goue, Ph.D.

1 Drexel Drive, New Orleans, LA 70125

504-520-5139

[ogoue@xula.edu](mailto:ogoue@xula.edu)

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### **SUMMARY**

I am a teacher-scholar with a research focus that aligns with materials synthesis and characterization for biomedical, energy and structural applications. I have also developed an expertise in design of experiment, statistical analysis, outreach, and curriculum development. During my professional career, I have mentored students from minority serving institutions who have gone on to either earn a master, are on the verge of earning their professional or doctoral degree in fields such as mechanical engineering, material science, and a biomedical science, or work in environmental engineering.

The capacities that I have acquired and consolidated over the course of my career align with the goals of the proposed project. So, participating in this project will enable me to make use of these capacities. It will also contribute to my professional growth in so far as expanding my contribution to the advancement of energy-resilience research.

### **EDUCATION**

**Harrisburg University of Science and Technology**, Harrisburg, PA  
M.S in Analytics, May 2024

**Stony Brook University**, Stony Brook, NY  
PhD in Materials Science and Engineering, May 2016

**Lincoln University of Pennsylvania**, Oxford, PA  
Bachelor of Science in Physics and Mathematics, May 2010

### **PROFESSIONAL EXPERIENCE**

- **Assistant Professor** January 2021 – Present  
Physics and Dual Degree Engineering Department, Xavier University of Louisiana, New Orleans
- **Adjunct Professor** August 2020 – December 2020  
Mathematics and Computer Science Department, Claflin University, Orangeburg
- **Visiting Assistant Professor** January 2017 – July 2019  
Chemistry and Physics Department, Lincoln University of Pennsylvania, Oxford
- **Program Lead** May 2017 – July 2017  
Envision Experience, Vienna, VA
- **Program Coordinator** November 2016 – May 2017  
Lincoln University of Pennsylvania, Oxford

### **SYNERGISTIC ACTIVITIES**

- Research Mentoring
  - Provide an environment that stimulates student growth and performance.
  - Establish goals and create a strategic plan to ensure that goals are met.
  - Advisor and mentor for the Xavier University of Louisiana Society of Physics Student (Xula-SPS) chapter
  - Workshop development on good research practice.
  - Expert in characterization and synthesis of materials for energy applications.
  - Application of statistical analysis for modeling and prediction

- Teaching and Curriculum Development
  - Integration of research projects into curriculum to engage students and stimulate their application of design process.
  - Leverage statistical analysis in students' performance prediction.
  - Enhancement of students' learning by redesigning courses to fit logistical constraints.
  - Development and dissemination of science immersion activities to middle and high school students.
- Supporting Industry Growth
  - Support various companies improve their processes for material synthesis along with the material properties (electronic, thermal, and mechanical). Companies that benefited from my experience include Cree Lighting, Philips, Dow Corning.
  - External subject matter expert for Guidepoint Consulting
- Connection to the Scientific Community
  - Member of various professional organizations including the Materials Research Society, New York Academy of Science, American Association of Physics Teacher, and the American Vacuum Society.

### **SAMPLE RESEARCH CONTRIBUTION**

- Manning, G. Chung, Ed. Sanchez, Yu Yang, J. Guo, Ouloide Y. Goue, B. Raghothamachar, M. Dudley, "Optimization of 150 mm 4H SiC Substrate Crystal Quality", Mat. Sci. Forum 924, 11-14 (2018)  
<https://doi.org/10.4028/www.scientific.net/MSF.924.11>
- Ouloide Y. Goue, Yu Yang, J. Guo, B. Raghothamachar, M. Dudley, J. Hostetler, R. L. Myers-Ward, P. B. Klein, D. K. Gaskill, "Correlation of lifetime mapping of 4H-SiC epilayers with structural defects using synchrotron X-ray topography", Mat. Sci. Forum 858, 297-300 (2016)  
<https://doi.org/10.4028/www.scientific.net/MSF.858.297>
- D. V. Esposito, Ouloide Y. Goue, K. D. Dobson, B. E. Mc Candless, J. G. Chen, R. W. Birkmire, "A new photo electrochemical test cell and its use for a combined two-electrode and three-electrode approach to cell testing," Rev. Sci. Instrum.80, 125107(2009).  
<http://link.aip.org/link/?RSI/80/125107>