

Jasmine Dufreche, E.I.T.

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EDUCATION

- University of Texas at Austin, Environmental Engineering M.S. May 2008
- University of Louisiana at Lafayette, Civil Engineering B.S., Summa Cum Laude 2006
GPA-3.93
- Louisiana E.I.T. #28133

WORK EXPERIENCE

- **University of Texas at Austin, Graduate Research Assistant**

8/06-present

Thesis: "Innovative In-situ Remediation of Contaminated Sediments for Simultaneous Control of Contamination and Erosion"

Project Goal: to evaluate the ability of organoclays to sequester organic contaminants in sediment. Experiments included sorption and desorption studies using HPLC analysis, invertebrate bioaccumulation studies, continuous flow column studies to evaluate contaminant retention by organoclay, organoclay permeability determination, and organoclay resistance to erosion

Laboratory Skills: Interpretation and use of High Performance Liquid Chromatography, solvent extraction in organoclay, tissue, and water samples, use of a syringe pump to deliver flow in column studies, employment of solid phase micro-extraction, operation of a centrifuge and nitrogen evaporation equipment

- **University of Louisiana at Lafayette, Assistant**

1/06-5/06

Assisted engineering dean with equipment orders and office tasks

- **University of Louisiana at Lafayette, Field Technician**

1/06-5/06

Deployment and maintenance of portable data loggers and maintained rain gauges and discharge gauges in Isaac Verot Watershed

- **Lafayette Utilities System, Engineering Aide III**

6/03-8/05

Conducted performance monitoring of a 20,000 cfm wet-packed bed scrubber and ventilation system at a wastewater treatment plant and a biological trickling filter at a lift station; tasks included programming portable data loggers, filling in field logs, compiling data, constructing graphs from data collected, using and calibrating portable meters and test kits for liquid and gas analysis.

Helped plan, organize, and build a computerized maintenance management system for two wastewater treatment plants. Assisted with the preliminary design of a new odor control system at a lift station.

Wrote technical scripts, filmed and edited operation and maintenance videos for 20,000 cfm odor control system at a municipal wastewater treatment plant.

Gathered and summarized information on the design and regulatory history of private community owned sewage utilities in Lafayette Parish.

Examined alternatives for connecting private sewer systems to existing Lafayette Utilities System collection system; tasks included calculating average and peak flow, determining gravity line and force main capacity and size, and evaluating flow routing paths.

PUBLICATIONS & PRESENTATIONS

- “Odor Control at Wastewater Lift Stations Using Biofiltration.” Mississippi Water Environment Association 2005 Annual Meeting and Technical Conference. June 2005.
- With Dufreche, Stephen and Zappi, Paul, P.E. “Managing Lift-Station-Derived Odors With Biofiltration.” *Water Environment and Technology*. July 2004: 57-61.

COMPUTER SKILLS

- Microsoft Word, Excel, and Powerpoint, Datastream MP2, Steady, Mineql+, Adobe Premiere, Companion Data Viewer, OMNI Datalogging software

HONORS

- 2006 UT Thrust Fellowship
- UL College of Engineering Outstanding Graduate
- ASCE Louisiana Section Outstanding Civil Engineering Senior
- Tau Beta Pi Deuchler Fellow No. 27
2005
- UL ASCE Junior of the Year
- Tau Beta Pi Record Scholar No. 91
- ASCE Samuel Fletcher Tapman Scholarship
- Louisiana Water Environment Association Scholarship
- Lillian Moller Gilbreth Society of Women Engineers Scholarship
2004
- Who’s Who Among Students in American Colleges & Universities
- California Cajun Club Environmental Engineering Scholarship

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers
- Tau Beta Pi
- Chi Epsilon
- Society of Women Engineers

ACTIVITIES

- Planned, organized, and executed U.L.L.’s 1st annual Engineering week
- Served as the Student Government Association College of Engineering President 2 years
- President of the Louisiana Delta chapter of Tau Beta Pi 2005
- Competitive distance running
- Middle Eastern Dance Artist
- Percussionist in Middle Eastern/African drumming band