

JONATHAN P. O'DWYER

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Education

Texas A&M University, College Station, TX
Ph.D. Chemical Engineering
August 2001-present

University of Louisiana at Lafayette, Lafayette, LA
B.S. Chemical Engineering, December 2000
GPA: 3.9/4.0

Experience

Monsanto Chemical Co., Luling, LA
Engineer, January – August 2001

- Optimized steam injection to enhance raw material recovery
- Developed spreadsheet to calculate batch times based on production demand
- Constructed material balance to identify and reduce product losses
- Performed multi-variable nonlinear regression analysis to determine optimum operating conditions

Center for Advanced Engineering Fibers and Films, Clemson, SC
National Science Foundation REU Summer Internship, May-August 2000

- Analyzed debris particles using an optical microscope and ImagePro[®] software
- Developed copper and gelated Nylon 6,6 particle size distribution functions
- Developed Graphical User Interface in Matlab[®] for a polymer flow visualization program

University of Louisiana Corrosion Research Center, Lafayette, LA
Undergraduate Research Assistant, Jan.-May 2000

- Utilized Model C, a phase equilibrium computer model, to generate a matrix of equilibrium constants
- Performed bubble point, dew point, and 2-phase flasher calculations in order to construct a phase diagram for a multicomponent hydrocarbon mixture

Spirit Energy 76/Unocal, Lafayette, LA
Engineering Assistant, Aug. 1999-Jan. 2000

- Conducted a chemical cost analysis for the South Marsh Island 9 field
- Generated a nodal analysis for Wells in the Ship Shoal 266 field to determine reservoir permeability, skin damage, and flowing bottom hole pressures

Spirit Energy 76/Unocal, Lafayette, LA
Offshore Roustabout/ Summer Internship, May-August 1999

- Opened shut-in wells, rebuilt valves and regulators, and assisted Safety Equipment Tester
- Assisted with troubleshooting and problem solving tactics

Georgia Gulf Chemical Company, Plaquemine, LA
Summer Internship, May-August 1998

- Involved in creating a database for all engineering CAD drawings
- Performed pressure drop calculations

Honors/Awards

- Graduated Magna Cum Laude
- Garnered first place at Engineering Day by presenting an Acetone Production Process simulated on ASPEN® Technology
- Recipient of the University of Louisiana Chemical Engineering, Louisiana Honors, and the Wal-Mart Competitive Edge Scholarships

Activities

- President, Omega Chi Epsilon Chemical Engineering Honor Society 1999-2000
- Member, Phi Kappa Phi Honor Society
- Member, the American Institute of Chemical Engineers
- Sports Coordinator, the American Institute of Chemical Engineers 1999-2000
- Volunteer, Louisiana Special Olympics
- Member, University of Louisiana baseball team 1996-1998