

Patrick John Fahey

Current Address:

3208 Shire Lane Apartment J
Raleigh, North Carolina 27606
Phone: 330.612.0644

E-mail: pjfahey@ncsu.edu

Permanent Address:

692 Sunnyside Avenue
Akron, Ohio 44303
Phone: 330.867.9509

EDUCATION

NORTH CAROLINA STATE UNIVERSITY, Raleigh, North Carolina

- Ph.D. Graduate Student, entered Fall 2010

OHIO UNIVERSITY, Athens, Ohio

- Bachelor of Science in Chemical Engineering, June 2010
- Overall GPA: 3.80/4.00

HONORS

- Dean's Scholarship Award, 2007-2008 and 2008-2009 academic years
- Alvin P. Lehnerd Scholarship Award, 2006-2007 academic year
- Stocker Scholars Award, 2005-2006 academic year

LEADERSHIP

- Robe Leadership Institute, Fall 2008
- Engineering Ambassadors, 2007-2008 and 2008-2009 academic years
- Vice President/President of American Institute of Chemical Engineers, Ohio University Chapter, 2008-2009
- President of Ohio University Mountain Biking Club, 2009-2010
- Eagle Scout

COMPUTER LITERACY

- Software: Microsoft Excel, Word, PowerPoint and Visio, MATLAB, AutoCAD, Solid Edge, Omega Personal DaqView

RELEVANT EXPERIENCE

RTI International, Research Triangle Park, North Carolina

Chemical Engineering Internship, Summers 2009, 2010

- Operated, troubleshoot, and modified cold-flow unit, and Fischer-Tropsch and water gas shift reactors
- Constructed experimental equipment with extensive use of Swagelok® fittings
- Operated, installed and removed compressed gas cylinders

Babcock and Wilcox Company, Barberton, Ohio

Chemical Engineering Co-op, Summer 2007, Winter 2008

- Helped gather and evaluate data for wet flue gas desulfurization
- Set up data acquisition system for a magnetic flowmeter
- Worked with an absorber mass balance program
- Helped operate pilot absorber at company pilot plant
- Travelled twice to commercial power stations to observe installed absorber units

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RELEVANT EXPERIENCE

Institute for Sustainable Energy and the Environment, Ohio University, *Undergraduate Research and Shop Work*, 2008-2009, 2009-2010

- Designed and constructed a small-scale biodiesel processor for experimental and demonstrational purposes. Ultimately the processor will be used to generate biodiesel from an oilseed project and algae oil from a photobioreactor.

WERC: A Consortium for Environmental Education and Technology Development

Design Competition Team Member, Ohio University Task 3 Team, 2009

- Developed a method to treat brackish water and generate power by solar distillation followed by superheating of the vapors
- Designed and constructed a small scale parabolic trough solar collector for demonstration

Engineering Ambassadors, Ohio University

2007-2008, 2008-2010 academic years

- Assisted engineering college with prospective students, visiting alumni and general college events
- Led tours of engineering college for prospective students and families
- Provided support and met guests during events such as Board of Visitors dinners, groundbreaking of new building, and scholarship competitions

Institute for Corrosion and Multiphase Technology, Ohio University

Research Technician, Summer 2008

- Characterized iron (II) carbonate precipitation using a quartz crystal microbalance

Ohio University Learning Communities

Peer Mentor, Fall 2007

- Facilitated freshmen adjustment to university life
- Assisted instructor with planning and preparation of class materials and lead some class discussions

WORK EXPERIENCE

Timmerman Geotechnical Group, Akron, Ohio

Junior Field Technician, Summer 2005, Summer 2006

- Performed field and lab testing to ensure that contractual specifications of projects were met
- Performed field tests such as in place density tests with soil and slump tests and cylinder molding with concrete
- Performed lab tests such as compression tests on concrete, grout and mortar, and compaction tests on soil

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ACTIVITIES

Ohio University Clubs

- Ohio University Mountain Biking Club, 2007-2008 and 2008-2009 academic years
- American Institute of Chemical Engineers (2005-2009)
- Alpha Lambda Delta Honors Fraternity (2006)
- Ohio University Sustainable Living Organization (2006)

HOBBIES

- Mountain biking
- SCUBA diving, NAUI Open Water Certified
- Guitar playing and guitar electronics tinkering
- General basement and garage tinkering