

Lauren E. Barney

26 Bedford Court • Amherst, MA 01002 • 978-660-8621 • laurenbarney@gmail.com

EDUCATION

University of Massachusetts Amherst, Amherst, MA	Fall 2011-present
Graduate Student	
University of Rhode Island, Kingston, RI	Graduated Summa Cum Laude in May 2011
Bachelor of Science in Chemical Engineering	GPA: 3.89/4.00
Concentration: Pharmaceutical Engineering	
Lunenburg High School, Lunenburg, MA	Graduated in June 2007

RESEARCH AND WORK EXPERIENCE

Research Associate, Reactive Innovations, LLC, Westford, MA June 2010-August 2011

- Design of electrochemical reactor systems for separation and water treatment applications.
- Electrochemical catalyst development and optimization of reactor operating conditions.
- Development of new manufacturing procedures for alternative designs and scaled-up reactors.
- Data analysis to determine the effect of various conditions upon the reactor's performance.
- Preparation of reports to be submitted to government clients.
- Giving presentations on experimental results to evaluate the research progress and to design experiments for continued product development.

Teaching Assistant, URI Chemical Engineering, Kingston, RI January 2011-May 2011

- Helping students in the Chemical Reactors and Chemical Kinetics course by answering questions, reviewing concepts, and helping to solve homework problems.
- Assisting with problem solving in class to reinforce concepts and facilitate group work.

AFFILIATIONS

Tau Beta Pi Engineering Honor Society , University of Rhode Island	2009-2011
• Secretary, 2010-2011	
American Institute of Chemical Engineers , University of Rhode Island	2007-2011
Phi Eta Sigma Freshman Honor Society , University of Rhode Island	2008-2011
National Honor Society , Lunenburg High School	2005-2007
• Vice President, 2006-2007	
Girl Scouts of the USA	1997-2011
• Camp Counselor	2002-2007

RECOGNITIONS

American Institute of Chemists Outstanding Student Award (Undergraduate), 2011
Undergraduate Research Grant, 2010-2011

The development and optimization of an environmentally friendly, adsorptive bubble purification method for plant-derived, non-caloric sweeteners

Dean Thomas Kim Scholarship, 2009-2011

Knickle Family Freshman Scholarship in Chemical Engineering, 2008-2009

University of Rhode Island Centennial Scholarship, 2007-2011

Worcester Telegram and Gazette Student Achiever, 2007

Worcester Telegram and Gazette Student Award
Lunenburg High School Golden L Award, 2007