

Dane D. Fearon

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EDUCATION

B.E. Chemical Engineering • Grove School of Engineering • City College of New York • **Expected: 2017** • **GPA: 3.52**

DESIGN EXPERIENCE

Senior Design Project

New York, NY 08/2016-12/2016

The City College of New York

- Worked in team of 3 to create feasible method of generating hydrogen via the catalytic partial oxidation of methane
- Used Aspen Plus Software to simulate hydrogen production plant
- Developed process flow diagram and conducted material and energy balance for system
- Placed 1st out of 12 groups in class; achieved perfect scores for Aspen simulation and design presentation

RESEARCH EXPERIENCE

Student Research Intern,

New York, NY 02/2015-Present

Louis Stokes Alliance, Combustion Catalysis Labs, Dr. Marco J. Castaldi

- Building bench scale reactor to simulate tar fouling in biomass gasification
- Building bench scale reactor to synthesize carbon nanofibers and determine how they form as a byproduct of gasification
- Using bomb calorimetry to determine heating values of waste plastics, fuels, virgin resins, and charred materials
- Analyzing surfaces of sample residues using scanning electron microscopy, energy dispersive X-ray spectroscopy
- Presented research findings at CUNY Summer Research Symposium

Student Research Intern

Tokyo, JP 07/2016-08/2016

Tokyo Institute of Technology, Dr. Kunio Yoshikawa

- Used already existing reactor to gasify biomass and later char with the goal of comparing the outcomes in order to optimizing char gasification
- Determined optimal gasification temperature range and equivalence ratio for 100% carbonized cedar char

OTHER EXPERIENCE

Peer Mentor

New York, NY 02/2015-01/2016

Retention Achievement Professionalism Success Institute

- Assisted mentee with setting and achieving goals, finding internships, and using the university's resources more effectively

Peer-Lead Team Learning (PLTL) Workshop Leader

New York, NY 01/2014-12/2014

The City College of New York

- Assisted students in understanding concepts in chemistry, collaborated with other leaders to improve lesson quality

Volunteer

Brooklyn, NY 09/2011-09/2015

Cobble Hill Health Center

- Assisted in planning, set-up, and execution of resident activities as well as in orientation of new volunteers

TECHNICAL SKILLS

- Lab Safety
- Bomb Calorimetry
- Thermogravimetric Analysis
- Scanning Electron Microscopy
- Bench-Scale Reactor Design
- Aspen Simulation

AWARDS

Wilfred Vernon Clarke Memorial Foundation Scholarship

01/16-08/17

Macaulay Scholar (full tuition scholarship to Macaulay Honors College)

08/2013-Present

Dean's List

01/2015-Present

ACTIVITIES & AFFILIATIONS

Omega Chi Epsilon CCNY Chapter – President

05/2016-Present

Materials Research Society CCNY Chapter - Secretary

05/2015-05/2016

American Institute of Chemical Engineers (AIChE)

05/2014-Present

- AIChE ChemE Car Competition (2015-Present)

CUNY IBM Case Competition Semifinalist

10/2014-01/2015

- Proposed idea to use IBM Watson's cognitive computing capabilities to improve the immigration process