Graduate Degrees Granted – Calendar Year

Spring 2015

PhDs Granted

Michael Coolbaugh, Dissertation: “Recent Advances in Self-Cleaving Intein Tag Technology” (Advisor: David Wood)

Niranjani Deshpande, Dissertation: “Calcium and Iron Oxide Reactivity Studies for Chemical Looping Applications of Clean Energy” (Advisor: Liang-Shih Fan)


Simuck Yuk, Dissertation: “Enantiospecificity of Chiral Pt Nanostructures Grown on Chiral SrTiO3 Surfaces” (Advisor: Aravind Asthagiri)

Master of Science Degrees Granted
Graduates Advisors
Prathamesh Karandikar Jacques Zakin
Daniel Knight Martin Feinberg
Andrew Maxson Jacques Zakin
Omar McGiveron Liang-Shih Fan
Xiang Zhang Bhavik Bakshi

Summer 2015

PhDs Granted
Rebecca Hanes, Dissertation: “Multidisciplinary modeling for sustainable engineering design and assessment” (Advisor: Bhavik Bakshi)

Elif Miskioglu, Dissertation: “Learning in Style: Investigation of Factors Impacting Student Success in Chemical Engineering at Individual and Team-Levels with a Focus on Student Learning Styles” (Advisor: David Wood)

Autumn 2015

PhDs Granted
Clayton Deighan, Dissertation: “Particle Balances in Extracellular Vesicle Separations and Characterization of Fluorescent Nanoparticle” (Advisor: Jeffrey Chalmers)

Qirui Fan, Dissertation: “Designing Photo-switchable Quantum Dots for Super Resolution Imaging” (Advisor: Jessica Winter)

Anshuman Fuller, Dissertation: “Novel Perovskite-based electro-catalysts for Oxidative Dehydrogenation (ODH) of Ethane in an Electrochemical Membrane Reactor” (Advisor: Umit Ozkan)

Daniel Knight, Dissertation: “Reactor behavior and its relation to chemical reaction network structure” (Advisor: Martin Feinberg)

Viraj Modak, Dissertation: “Surface Freezing in n-alkanes: Experimental and Molecular Dynamics Studies” (Advisor: Barbara Wyslouzil)

Li Pan, Dissertation: “First-Principles Studies of the Reactivity of Transition Metal Oxide Surfaces” (Advisor: Aravind Asthagiri)

Aining Wang, Dissertation: “Electrical Capacitance Volume Tomography and its Applications in Multiphase Flow” (Advisor: Liang-Shih Fan)

**Master of Science Degrees Granted**

**Graduates**  **Advisors**

Matthew Souva  Barbara Wyslouzil, Jessica Winter
Graduate Student Awards 2015

Yuanxin Chen: Selected as a Finalist for the new Science & Technology Award from DSM and the American Institute of Chemical Engineers (AIChE). This selection will provide $1,000 to cover any travel and conference registration costs for Yuanxin to present a paper at the AIChE Annual Meeting in Salt Lake City, UT on November 8 – 13, 2015.

Anshuman Fuller: Received a 2015 Kokes Award and presented at the 24th North American Catalysis Society meeting. The award covered a significant portion of the transportation, lodging, and conference registration costs. The meeting was June 14-19 in Pittsburgh, PA.

Varsha Gopalakrishnan: Received a travel scholarship for the ISIE Conference 2015 at the University of Surrey, UK. She received a travel and lodging stipend and a discounted registration fee. She is giving a presentation titled, "Techno-Ecological Synergy for Sustainability Assessment - Application to a Soybean Biodiesel Production System" and another talk with Rebecca on "Design for sustainability by accounting for techno-ecological synergies at multiple scales". The conference was from July 7-11 in Guildford, UK.

Sreshtha Sinha majumdar: Received a 2015 Kokes Award and presented at the 24th North American Catalysis Society meeting. The award covered a significant portion of the transportation, lodging, and conference registration costs. The meeting was June 14-19 in Pittsburgh, PA.

Varun Vakharia: Won the 2015 Elias Klein Founders’ Travel Supplement Award from the North American Membrane Society. The selection of this award is based, in part, on academic achievements, and it will provide up to $500 for Varun to present a paper, entitled “Water Vapor and CO$_2$ Permeation through Amine-Containing Facilitated Transport Membranes and Their Modeling for CO$_2$ Separation”, at the Annual Meeting of NAMS in Boston, MA on May 31 – June 3, 2015.

Won the Third Place Poster Award in the Membrane Processes category in the Poster Paper Competition at the Annual Meeting of the North American Membrane Society (NAMS) in Boston, MA on May 30 – June 3, 2015. Varun’s poster was entitled “Water Vapor and CO$_2$ Permeation through Amine-Containing Facilitated Transport Membranes and Their Modeling for Post-Combustion Carbon Capture”, which was co-authored by Zi Tong and Winston Ho. The Third Place Poster Award consisted of a cash prize of $200 and a plaque. In addition to this poster presentation in the Poster Paper Competition, Varun also presented this paper at an oral session on Gas Separation III: Membranes for CO$_2$ Capture.

2015 University Fellowships:
Saurabh Ailawar
Fanhe Kong
Mingyuan Xu