2011
Research and Creative Activity
Department of Industrial Engineering
Lamar University

Victor Zaloom, Ph.D., P.E., Professor & Chair
Associate Dean of College of Engineering
Dean of Graduate Studies

Brian Craig, Ph.D., P.E., CPE, Professor, Interim Chair

Ryan Underdown, Ph.D., P.E., Associate Professor
James Curry, Ph.D., Assistant Professor
Xinyu Liu, Ph.D., Assistant Professor
Alberto Marquez, Ph.D., Assistant Professor
Weihang Zhu, Ph.D., Associate Professor
Tae Hoon Kim, Ph.D. Adjunct Professor

April 2012
This report is published yearly by the Lamar University Department of Industrial Engineering to highlight the research and creative accomplishments of the faculty and students of the department. Listings are in alphabetical order.

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Publications


Theses and Field Studies Published

Doctoral Dissertations/Field Studies

Ahmed Khago, Analysis of Safety Culture in the Maritime Industry, Advisor: Brian Craig, Committee members: James Curry, Alberto Marquez, Ashraf El-Houbi

Sameer Pallavkar, Application of Microwave Energy in the Control of DPM, NOx and VOC Emissions, Advisor: Thomas Ho, Committee members: Tae Hoon Kim, Rafael Tadmor, Che-Jen Lin, Paul Chiou

Master of Engineering Science Theses

Sriram Pydi, Effect of Minimum Quantity Lubrication on Surface Roughness in Micro-milling, Advisor: Xinyu Liu, Committee members: Weihang Zhu, Victor Zaloom

Presentations


**Current Funding**


   - Safety data analysis from multiple data sources.


4. Research Enhancement Grant, Lamar University, PI: **Brian Craig**, $5,000, September 2010 – August 2011.


7. Texas Department of Transportation, “Hydraulic performance of Rectangular Deck Drains”, PI: Qin Qian, Co-PIs: Mark Bourland, Xinyu Liu, Randal Charbeneau, Michael Barrett, September 2010–August 2012, $300,000


12. NSF Fellowship for NSF Summer Institute short course on energy manufacturing (June 28 - July 1, 2011 in Evanston, IL): Weihang Zhu

13. NSF Fellowship for NSF Summer Institute short course on Cancer nanotechnology (June 7–9, 2011 in Houston, TX): Weihang Zhu

Panels

1. Weihang Zhu, Panel Review for National Science Foundation, Division of Industrial Innovation and Partnerships, March 2011.


3. Weihang Zhu, Panel Review for National Science Foundation, Division of Industrial Innovation and Partnerships, October 2011.

IE Student Papers


**Session Chairs**

**Online Courses**

In 2011, the IE department taught 14 online and distance education courses.