2012

Research and Creative Activity

Department of Industrial Engineering

Lamar University

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

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

Ryan Underdown, Ph.D., P.E., Associate Professor

James Curry, Ph.D., Associate 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

February 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


2. Craig, B., Near Miss Reporting: Challenges and Obstacles to a Robust Near Miss Reporting System. Marine Technology, The Society of Naval Architects and Marine Engineers, Jersey City, New Jersey, April 2012


Patent

Theses and Field Studies Published

Doctoral Dissertations/Field Studies


6. Jie Fu, “Conceptual Design, Dynamic Simulation and Production Scheduling for Energy Saving and Emission Reduction in Industries”, Ph.D in Chemical Engineering, Supervising Professor: Dr. Qiang Xu, Committee members: Kuyen Li, John Gossage, Paul Chiou, Xinyu Liu.

Master of Engineering Science Theses


2. Vaibhav Chauhan, *Cleaning Safety Records Using Text Mining Algorithms*, Advisor: James Curry, Committee members: Brian Craig, Alberto Marquez

Presentations


3. Craig, B., Accident Causation-Human Error, American Society of Safety Engineers (ASSE) Sabine Neches Chapter, Invited Speaker, Nederland, Texas, February, 2012


Current Funding


3. Safety Culture Assessment, American Bureau of Shipping, Houston, Texas, Brian Craig – Principal Investigator with Co-PI’s: James Curry, Weihang Zhu, (Summer 2012 – Fall 2013)


5. Research Enhancement Grant, Lamar University, PI: Xinyu Liu, $5,000, September 2011 – August 2012.

6. 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


Panels

1. Craig, B., NASA Habitable Volume Workshop, Invited Participant, Houston, TX, July 2012

IE Student Papers


Online Courses

In 2012, the IE department taught 18 online and distance education courses.