# **IOWA STATE UNIVERSITY**

Agricultural and Biosystems Engineering

### Nir Keren

### **Associate Professor**

2624H Howe 515-294-2580 nir@iastate.edu www.abe.iastate.edu

#### Education

Ph.D. Interdisciplinary Engineering (Chemical Engineering Dept.) Mary Kay O'Connor Process Safety Center Texas A&M University, 2003

M.S. Management and Safety Engineering Ben Gurion University, Israel, 1998

B.S. Mechanical Engineering Ben Gurion University, Israel, 1990

#### **Honors and Awards**

Iowa Labor Commissioner Recognition of Service on the Iowa Occupational Safety and Health Advisory Council (2011)

ISU Miller Faculty Fellow (2007-08 & 2008-09)

Magna Cum Laude, Ben Gurion University, Israel

#### **Recent Publications**

Mosher, G. A., **Keren, N.**, Freeman, S. A., & Hurburgh, C. R. (2014), Development of Safety Decision-Making Scenario to Measure Worker Safety in Agriculture, Journal of Agricultural Safety and Health, 20(2): 91-107

Mosher, G. A., **Keren, N.**, & Hurburgh, C. R. (2013). Development of quality decision-making scenario to measure how employees handle out-of-condition grain, Applied Engineering in Agriculture, 29(5): 807-814.

Mosher, G. A., **Keren, N.**, & Freeman, A. S. (2013). Measurement of Worker Perceptions of Trust and Safety Climate in Managers and Supervisors at a Commercial Grain Elevator, Journal of Agricultural Safety and Health, 19(2). 125-134.

Mosher, G. A., **Keren, N.**, & Hurburgh C. R. (2013). Employee trust and its influence on quality climate at two administration levels, Journal of Technology Management and Applied Engineering, 29(2).

Mosher, G. A., **Keren, N.**, Freeman, S. A., Hurburgh C. R. (2012). Management of safety and quality and the relationship with employee decisions in the country grain elevator, *Journal* of Agricultural Safety and Health, 18(3): 195-215

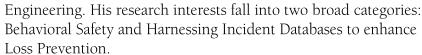
Zhang, W., Gkritza, K., **Keren, N.**, & Nambisan, S. (2011). Age and gender differences in conviction and crash occurrence subsequent to being directed to lowa's driver improvement program, *Journal of Safety Research*, 42(5): 359-365.

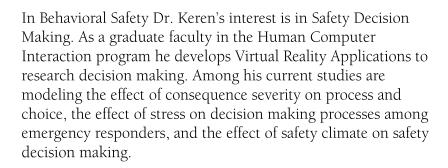
### **Teaching**

Dr. Keren teaches TSM 370 Occupational Safety; TSM 376 Fire Protection and Prevention; TSM 470 Fundamentals of Industrial Hygiene; TSM 471 Safety Laboratory; and TSM 477/577 Risk Analysis and Management.

## **Current Research Projects**

Dr. Keren is an Associate Professor of Occupational Safety in the department of Agricultural and Biosystems





In harnessing incident databases Dr. Keren is developing novel applications to support loss prevention efforts. In his research he utilizes publicly available and privately owned incident datasets. Recent works in this area include risk assessment of hazardous material transport, and development of calibration values for equipment failure rates in chemical processes.

